Sewer

Acct. #:

5112216200

Company: WASHINGTON UNIVERSITY MEDICAL SCHOOL

Address: 660 S. Euclid Ave.

City: St. Louis

State and Zip: MO 63110

Ind_id

File Code

File Description

84241

41

PERMIT OVERFLOW

P I_-Side

ACCOUNT NUMBER:

5112-2162-00

WASHINGTON UNIV SCHOOL OF MEDICINE

660 South Euclid St. Louis, MO 63110

COMPANY NAME:

CORRESPONDENCE

FROM <u>1999</u> THRU <u>200/</u>

CORRESPONDENCE LOCATED IN OVERFLOW FILE

PERMIT OVERFLOW

PMT

METE OPOLITAN ST. LOUIS SEWER DISTRICT INDUSTRIAL USER RADIOACTIVE MATERIALS DISCHARGE REPORT

PART I: IDENTIFYING INFORMATION	
Company Name: Wash U. School of Med	scine - blogs east of Euclid
Permit No: 51122162-00	
Premise Address: 660 5. Euclid	57 Louis MO 63110
Reporting Period: □(JAN-MAR) □(AP	R-JUNE) Q(JULY-SEPT) D(OCT-DEC)
PART II: RECORD OF DISPOSAL OF RADIOACT	, , , , , , , , , , , , , , , , , , , ,
RADIONUCLIDE	ACTIVITY DISCHARGED (millicuries)
<u>H·3</u>	37.293
P-32	0.530
S-3.5	0.117-
I-125	0.040
Mn-54	0.010
///n-3	0.030
IV.	
	19/
TOTAL ACTIVITY DISCHARGED:	38.020 mC; GERECTERESULTALO EPHANCE
PART III: CERTIFICATION STATEMENTS	
Place your initials in the box under item	7.
Everyone must complete the information und	A. er items A & B and sion this report.
A. CERTIFICATION OF COMPLIANCE WITH STATE	
a the second of	المطور الموادات الموادي والمستمين والمتحادث المتحادث المت
IN [7] and is Can rait 20-10.030 doverning disposal	belief, all requirements of 10 CFR Part 20.2003 by release into sanitary sewage for material
regulated by the Nuclear Regulatory Commission tively, have been met for the period covered	ID and the Missouri Donortmont of U-olth
B. RADIOACTIVE MATERIALS DISCHARGE REPOR	•
I certify under penalty of Law that this document ar	nd all attachments were prepared under my
direction or supervision in accordance with a system properly gather and evaluate the information submitted	n designed to assure that gualified margannal
dersons who manage the system, or those persons dire	octiv responsible for anthoning the information
the information submitted is, to the best of my know I am aware that there are significant penalties for	Submitting false information including the
possibility of fine and imprisonment for knowing vio	plations.
Print/type name of signing official: Q_{α}	niel J Szatkowski
ritle: Assistant RSO	Telephone: 3/4 362 3479
Signature: Danil huthon	Date:/()-/9-0/
	radrpt.doc 2/00

ROPOLITAN ST. LOUIS SEWER DIS INDUSTRIAL USER SELF MONITORING REPORT

O D	PLEASE	READ	THE	INSTRUCTIONS	BEFORE	COMPLETING	THIS	REPORT
								•

PART I: IDENTIFYING INFORMATION	W/4.
Company Name: Washington University School of Medicine	
Permit No:	
Premise Address: 660 S. Euclid; St. Louis, MO 63110	<u> </u>
Monitoring Period: □(JAN-MAR) □(APR-JUNE) ズ(JULY-SEPT)	(OCT-DEC)
Samples Collected By: St. Louis Testing Laboratories	
Analyses Performed By: St Louis Testing Laboratorics	
· · · · · · · · · · · · · · · · · · ·	

ANALYTICAL RESULTS OF SELF MONITORING PART II:

agrange WHATCH		00		~	203		005	
MSD SAMPLE POINT REFERENCE NUMBERS	>	Grab	8/15/01	Grab	8/15/01	Grah	8/14/01	
DATES ON WHICH SAMPLES WERE COLLECTED	>	Comp	8/15-1WOI	60~0	8/15-16/01 11:48 a.m.	Gra.	10:36 9im.	
TIMES AT WHICH SAMPLES WERE COLLECTED	<u>, ——></u>		11:32 am.	Com	0 11:58 gm.	(0)	mp 10:32 q.m.	
		11	CORD SAMPLE TYP				, and the second se	
PARAMETER	LIMIT	G=	grab, C≃composi	ce, M∶	=measured flow,	E≖es	timated flow	בדואט
FLOY		E	55,850	E	3,445	E	555,150	GPD
Biological Oxygen Demand		C	16		. 101	<u></u>	34	my/2
Chemical Oxygen Demand		0	37	0	208	_	96	mg/l
Total Suspended Solids		C	20	<u></u>	65	_	33	my/l
1H		6	7.62	G	8.24	G	8.24	5+1 pH units
Dil & Greage		G	5	6	6	G	5	my/l
Silver		C	<0.05		0.06	<u>C</u>	< 0.05	mg/l
Ashestos		_	20.7	0	20.7	<u>C</u>	20.7	MSL
Alsenic		6	<0.05	C	20.05	C	20.05	my/l
Chromium		2	20.05	C	<0.05	C	<0.05	nd/6
Mercury 1		1 C	L0,0005	<u>に</u>	20.0005	<u>C</u>	20,0005	nall
Total Cyanide (ND)		C	28.02	C	0,82	0	2002	myl
Aurolein (120)		(Monarde	C	1000	6	N)(L100)	my/l
Methylene Chloride (2P)		C	M	C	XQX	<u>c</u>	(260)	رطوم
Chloro form (2)		1 C	140)	C	AU	6	XX	ug/R,
Carbon Tetrachloride(xe)		C	10. WAX	C	XXX -01	6	X	ug/l
Penzene (149)		C	\XX\	C	XX) =	0	MEDI	my/l
Toluene VD		C	THE	C	YH	C	W _	ug/l
Dhenol Re		6	11/4.012	<u>C</u>	MZ .312	C	NNZ.013/	,,
2,4-Dinitrophenol (KP)		(ND(6.012)	C	MA(K.013)	C	NNe.012	1
Benzidine (20		C	MX L.025)	C	NOL.029	C	1/1/2.025	my/l
Temperature		G	34,5	ઉ	32.0	list		TEPI
			,				P 😊 🗀 🖰	1 , 1111

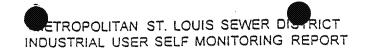
You must complete and sign the certification statements on the reverse side.

PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify one or more of the following. Please review your permit and PLACE YOUR INITIALS IN THE BOXES NEXT TO THOSE CERTIFICATIONS WHICH ARE APPLICABLE TO YOUR FACILITY. If your permit contains no Special Conditions, then none of the certifications in PART III apply to you. GO ON TO PART IV.

A.	If your permit special conditions waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification:
	I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sampling point(s)
8.	If your permit special conditions waive monitoring at active connection points which are not specified as sample points in your permit, you are required to make the following certification: I certify, since the last discharge monitoring report, there has been no change in the character of wastes discharged at those active.
	connection points which are not specified in my permit.
C.	If your permit special conditions waive monitoring at inactive connection points, you are required to make the following certification: I certify, since the permit issue date, there has been no change in the status of connection points identified as inactive. These points remain inactive and no discharge occurred during the period covered by this report.
٥.	If your permit special conditions authorize grab sample collection in lieu of composite sampling at any sample point(s), you are required to make the following certification:
	I certify the grab sample results in this report accurately represent our average daily discharge at sample point(s)
E.	If your permit special conditions prohibit discharge of wastes which are subject to certain categorical pretreatment standards, you are required to make the following certification:
	I certify, since the last discharge monitoring report, there has been no discharge of wastes which are subject to pretreatment standards in 40 CFR
F.	Discharges subject to Pharmaceutical Categorical Standards (40 CFR 439) can be exempted from limitations and monitoring for Total Cyanide at the Pharmaceutical sample point(s) subject to the following certification: I certify, since the last discharge monitoring report, cyanide has not been used or generated in any pharmaceutical manufacturing
	process subject to Categorical Standards in 40 CFR 439.
G.	Discharges Subject to Categorical Standards for Electroplating (40 CFR 413), Metal Finishing (40 CFR 433) or Electrical & Electronic Components (40 CFR 469) can be exempted from TTO monitoring only at the Electroplating, Metal Finishing or Electrical & Electronic Components sample point(s) subject to the following certification: Based on my inquiry of the person or persons directly responsible for managing compliance with the permit limitation for total toxic organics (TTO). It certify that to the host of my knowledge and halling an electronic persons.
	organics (TTO), I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewaters has occurred since filling the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to MSD.
PART	IV: GENERAL CERTIFICATION STATEMENTS
nitial t	he box for statement A if it applies to you. Everyone must complete the information under statement 3 and sign this report.
۹.	Discharges at sample points subject only to MSD Ordinance limits can be exempted from TTO monitoring subject to the following certification: In lieu of monitoring for TTO at sample point(s)
3.	DISCHARGE MONITORING REPORT CERTIFICATION
esigne vho ma ind bel	under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance, with a systemed to assure that qualified personnel property gather and evaluate the information submitted. Based on my inquiry of the person or persons anage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge lief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine prisonment for knowing violations.
int or	type name of signing official. Michael T. Kershaw
ītle:	Hazardous Makrials Division Manuson Telephone: (314) 362-6735
iignatu	

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PLEASE READ THE INSTRUCTIONS BEFORE COMPLETING THIS REPORT

PART I: IDENTIFYING INFORMATION		_			
Company Name: Washington Univer	situ :	School of	Medicine		
Permit No:	-, 7				
Premise Address: 660 S. Eucl	انياً .	St. Louis	MO 631	10	
Monitoring Period: □(JAN-MAR)	((APR-JUNE)	X(JULY-SEP	T) 🗆(0	CT-DEC)
Samples Collected By:	Tection	a Laborator	ries		
Analyses Performed By: 5+ Louis	Test	ine Laborati	ocics		
PART II: ANALYTICAL RESULTS OF			·		
MSO SAMPLE POINT REFERENCE NUMBERS	_> @	26 2144			
OATES ON WHICH SAMPLES WERE COLLECTED	<u>-> c</u>	- 8/14/01 - 0/14-15/01 - 9:69 g.m.		mannagi pir dipramanananananan (respective parameter par	
TIMES AT WHICH SAMPLES WERE COLLECTED		· 10:07 9-			
			ES (G, C, M CR E) AN		UNITS
PARAMETER LI	MIT	G=grab, C=composi	ce, M=measured flow,	E-estimated 100	
FLOW		E 2,665			GPD
Biological Oxygon Demand		54			mg/2
Chonical Oxygen Demand		<u> </u>			7/0
Total Suspended Solids		1 57			565 11
pH '		5 8.08			St Stunits
Oil & Grease		The state of the s			00
Temperature	G	4			mx/0
Silver		20.05			M4
Askestos		20.7			mg/0
Arsenic		(<0.05	·		wyle
Chromium		<0.0005			my/2
Mercury (Total Cyanide (N/A)					my/e
Acrobin	manufactured process	C ND (200)			118/8
Methylene Chloride		(80)			MA
Carbon Tetrachloride		c and			My/R
Renzene					py/l
Toluene (12)		c 200/2.	J	:	/4/R
Phenol		C 700			me/8
2,4-Dinitrophenal	(11)(2.017)	DE C	EI VEIN	17/8
Benzidine		C NOLOW		2 3 2001	Me
Chloroform		(ND4.025			18/1
			nsaceos	INFROX ENTAL COMPLIANCE	905 von
· ·			-1		· · · · · · · · · · · · · · · · · · ·

You must complete and sign the certification statements on the reverse side. The octo = Lo. 149 mg/

PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify one or more of the following. Please review your permit and PLACE YOUR INITIALS IN THE BOXES NEXT TO THOSE CERTIFICATIONS WHICH ARE APPLICABLE TO YOUR FACILITY. If your permit contains no Special Conditions, then none of the certifications in PART III apply to you. GO ON TO PART IV.

A.	If your permit special conditions waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification:
	I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sampling point(s)
8.	If your permit special conditions waive monitoring at active connection points which are not specified as sample points in your permit, your permit, your permit to make the following certification: I certify, since the last discharge monitoring report, there has been no change in the character of wastes discharged at those active connection points which are not specified in my permit.
C.	If your permit special conditions waive monitoring at inactive connection points, you are required to make the following certification: I certify, since the permit issue date, there has been no change in the status of connection points identified as inactive. Thes points remain inactive and no discharge occurred during the period covered by this report.
0.	If your permit special conditions authorize grab sample collection in lieu of composite sampling at any sample point(s), you are required to make the following certification: I certify the grab sample results in this report accurately represent our average daily discharge at sample point(s)
E.	If your permit special conditions prohibit discharge of wastes which are subject to certain categorical pretreatment standards, you are required to make the following certification: I certify, since the last discharge monitoring report, there has been no discharge of wastes which are subject to pretreatment standards in 40 CFR
F.	Discharges subject to Pharmaceutical Categorical Standards (40 CFR 439) can be exempted from limitations and monitoring for Total Cyanide at the Pharmaceutical sample point(s) subject to the following certification: I certify, since the last discharge monitoring report, cyanide has not been used or generated in any pharmaceutical manufacturing process subject to Categorical Standards in 40 CFR 439.
G.	Discharges Subject to Categorical Standards for Electroplating (40 CFR 413), Metal Finishing (40 CFR 433) or Electrical & Electronic Components (40 CFR 469) can be exempted from TTO monitoring only at the Electroplating, Metal Finishing or Electrical & Electronic Components sample point(s) subject to the following certification: Based on my inquiry of the person or persons directly responsible for managing compliance with the permit limitation for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewaters has occurred since filling the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to MSD.
PART	
initial the	Discharges at sample points subject only to MSD Ordinance limits can be exempted from TTO monitoring subject to the following certification: In lieu of monitoring for TTO at sample point(s) It is certify that to the best of my knowledge and belief, no toxic organics have been used at this premise or discharged into the wastewaters since filing of the last discharge monitoring report.
8. _.	DISCHARGE MONITORING REPORT CERTIFICATION
who man and belie	under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system to assure that qualified personnel property gather and evaluate the information submitted. Based on my inquiry of the person or persons lage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge of, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine isonment for knowing violations.
Print or t	ype name of signing official: Michael T. Kershaw
, Title:	Hazardous Makerials Division Manuson Telephone: (314) 367-6735
Signature	:- Mulael & Kerka Cate: 10/18/01

?



2810 Clark Avenue • St. Louis, MO 63103-2574 • (314) 531-8080 • FAX (314) 531-8085

WASHINGTON UNIVERSITY

Campus Box 8229 660 South Euclid Ave. St. Louis, MO 63110 September 12, 2001 Lab No. 01E-0958 P.O. No. 29364J Page 1 of 2

Attention: Mike Kershaw

REPORT OF TESTS

SAMPLE ID: WASTE WATER GRAB, PT. 001, 8/15/01 @ 11:20AM

WASTE WATER COMPOSITE, PT. 001, 8/15-16/01 @ 11:32AM

WASTE WATER GRAB, PT. 003, 8/15/01 @ 11:48AM

WASTE WATER COMPOSITE, PT. 003, 8/15-16/01 @ 11:58AM

WASTE WATER GRAB, PT. 005, 8/14/01 @ 10:26AM

WASTE WATER COMPOSITE, PT. 005, 8/14-15/01 @ 10:32AM

WASTE WATER GRAB, PT. 006, 8/14/01 @ 9:59AM

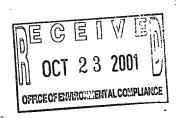
WASTE WATER COMPOSITE, PT. 006, 8/14-15/01 @ 10:02AM

RESULTS: mg/L Except As Noted

ANALYTE	001	003	005	006	MQL	METHOD NUMBER
Biological Oxygen Demand (C)	16	101	34	54	10	405.1
Chemical Oxygen Demand (C)	37	208	96	101	10	410.4
Total Suspended Solids (C)	20	65	33	57	5	160.2
pH (Std. pH Units)(G)	7.62	8.24	8.24	8.08		150.1
Oil & Grease (G)	5	6	5	< 5	5	1664
Temperature (G)	34.5	32.0	33.4	28.8		170.1
Silver	<0.05	0.06	<0.05	<0.05	0.05	200.7
Asbestos (MSL)	<0.7	<0.7	<0.7	<0.7	0.7	SM 2570
Arsenic	<0.05	<0.05	<0.05	<0.05	0.05	200.7
Chromium	<0.05	<0.05	<0.05	<0.05	0.05	200.7
Mercury	<0.0005	<0.0005	<0.0005	<0.0005	0.0005	245.1
Total Cyanide	<0.02	0.02	<0.02	<0.02	0.02	335.2

MSL: Millions Structures per Liter

MQL: Minimum Quantitative Limit





AN OFFICIAL COPY OF TEST REPORT WILL BE PROVIDED BY THIS LABORATORY ON REQUEST. DO NOT REPRODUCE.

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SEE REVERSE FOR CONDITIONS.



2810 Clark Avenue • St. Louis, MO 63103-2574 • (314) 531-8080 • FAX (314) 531-8085

WASHINGTON UNIVERSITY

Campus Box 8229 660 South Euclid Ave. St. Louis, MO 63110

Attention: Mike Kershaw

September 12, 2001 Lab No. 01E-0958 P.O. No. 29364J Page 2 of 2

RESULTS: μg/L or Parts per Billion (PPB) **VOLATILES EPA 600 METHOD 624 ANALYTE** 001 003 005 006 MDL ND & Acrolein ND ND " ND & 100.0 Methylene Chloride ND ND ~ 260 ND 5.0 Chloroform ND ND & ND . ND 5.0 Carbon Tetrachloride ND ND ~ ND e ND 0 5.0 Benzene ND ND ND & ND . 5.0 Toluene ND ND ND ND 5.0

RESULTS: mg/L or Parts per Million (PPM) SEMI-VOLATILES EPA 600 METHOD 625

ANALYTE	001	003	005	006	MDL
Phenol	ND	ND +	ND,ø	ND .	0.012
2,4-Dinitrophenol	ND	ND «	ND &	ND &	0.012
Benzidine	ND	ND .	ND,	ND e	0.025

ND: Not Detected / MDL: Method Detection Limit

identification of tested specimens provided by the client.

CSD/crh

Carmen S. DeBlass, Director Environmental Testing

OCT 23 2001

OFFICE OF ENVIRONMENTAL COMPLIANCE

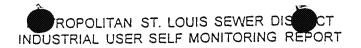
DO NOT REPRODUCE.

ACIL.

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ME POLITAN ST. LOUIS SEWER DISTRICT INDUSTRIAL USER RADIOACTIVE MATERIALS DISCHARGE REPORT

PART 1: IDENTIFYING INFORMATION	
Company Name: Wash. U. School of Mro	1. blogs west of Euclid
Permit No: 51/22162-00	
Premise Address: 660 S. Euclid	St Louis MO 63/10
Reporting Period: □(JAN-MAR) □(AP	R-JUNE) U(JULY-SEPT) D(OCT-DEC)
PART II: RECORD OF DISPOSAL OF RADIOACTI	IVE MATERIALS TO THE SEWER SYSTEM
RADIONUCLIDE	ACTIVITY DISCHARGED (millicuries)
P-32	5.884
5-35	0,529
C-14	0,300
I-125	0.062
ρ-33	0 102
D.,	
TOTAL ACTIVITY DISCHARGED:	7.087 mC; PATTER ATTENDED LANCE
PART III: CERTIFICATION STATEMENTS	
Place your initials in the box under item	~ A .
Everyone must complete the information und	er items A & B and sign this report.
A. CERTIFICATION OF COMPLIANCE WITH STAT	TE AND FEDERAL REGULATIONS
I certify that to the best of my knowledge &	belief, all requirements of 10 CFR Part 20.2003
A A did is Cok rait 20-10.090 doverning disposal	by release into sanitary sewage for material on and the Missouri Department of Health, respec-
tively, have been met for the period covered	by this report.
RADIOACTIVE MATERIALS DISCHARGE REPOR	RT CERTIFICATION
certify under penalty of Law that this document ar	nd all attachments were prepared under my
properly gather and evaluate the information submitt	designed to assure that qualified personnel red. Based on my inquiry of the person or
persons who manage the system, or those persons directly inhe information submitted is, to the best of my known	ectly responsible for authoring the information
. all aware that there are significant penalties for	Submitting false information including the
Print/type name of signing official:	
Citle: Assistant RSO	Telephone: 3/4 362 3479
	- 10
ignature: Danie Shuthous	Date: /O-/9-0/ radrpt.doc 2/00



PLEASE READ THE INSTRUCTIONS BEFORE COMPLETING THIS REPORT

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PART I: IDENTIFYING INFORMA					,		•	
Company Name: Washington U.	niversita	Sc	hool of	Me	dicine			
Permit No:	0						agentura de la constanta de la	terrenium en
Premise Address: 660 S. B	Euclid .	5	t. Louis	N	0 631	10		, <u>, , , , , , , , , , , , , , , , , , </u>
Monitoring Period: □(JAN-MAR)							(0)	CT-DEC)
Samples Collected By:	is Teal	ina	Laborato	rie s	17.			nandikanane namak-u 1975-1975
Analyses Performed By: 54. Long								
PART II: ANALYTICAL RESULTS		_						
FART II.		ī			Chr.			
MSD SAMPLE POINT REFERENCE NUMBERS	>	00	<u> </u>	Grah	203 - 611/ar	Gral	005	
DATES ON WHICH SAMPLES WERE COLLECTED	>_	Cem	6/1/91 5/20-5/31/01 0 9:10 a.m. 8:50 a.m.	Comp	-5/31-6/1/01	Comp	5/30-5/31/01 6 11:110,0	
TIMES AT WHICH SAMPLES WERE COLLECTED	>	Com	8:50g.m.	Com	o lillam.	Con	p 8:40 cm.	
			CORD SAMPLE TYR grab, C=composi					UNITS
PARAMETER	LIMIT	G=				ı		
FLOW		E	55,850			E	555150	GPD
BoD		6	33	2	105	<u>こ</u>	43	mali
COD		<u>C</u>	339	0	315	C	136 38	mg/
TSS		<u>ر</u> ج	95 6.82	G	<u>231</u> 7.21	G	8.26	Stationits
PH		G	45	G	99	G	10	mg/L
Oil & Grease		G	30.3	<u>G</u>	26.1	ىي	30.0	C°.
Temperature		6	<0.05	Ċ	0.11	C	<0.05	mg/
5/104								
	<u> </u>							
						<u> </u>	penenoconocony(V)	
			- Annual Control of the Control of t			<u> </u>	angunnandae	
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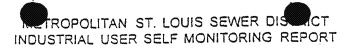
You must complete and sign the certification statements on the reverse side.

PART III:

SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify one or more of the following. Please review your permit and PLACE YOUR INITIALS IN THE BOXES NEXT TO THOSE CERTIFICATIONS WHICH ARE APPLICABLE TO YOUR FACILITY. If your permit contains no Special Conditions, then none of the certifications in PART III apply to you. GO ON TO PART IV.

A.	If your permit special conditions waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification:
	I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sampling point(s)
8.	If your permit special conditions waive monitoring at active connection points which are not specified as sample points in your permit, you are required to make the following certification:
•	I certify, since the last discharge monitoring report, there has been no change in the character of wastes discharged at those active connection points which are not specified in my permit.
C.	If your permit special conditions waive monitoring at inactive connection points, you are required to make the following certification: I certify, since the permit issue date, there has been no change in the status of connection points identified as inactive. These points remain inactive and no discharge occurred during the period covered by this report.
D.	If your permit special conditions authorize grab sample collection in lieu of composite sampling at any sample point(s), you are required to make the following certification:
	I certify the grab sample results in this report accurately represent our average daily discharge at sample point(s)
E.	If your permit special conditions prohibit discharge of wastes which are subject to certain categorical pretreatment standards, you are required to make the following certification:
	I certify, since the last discharge monitoring report, there has been no discharge of wastes which are subject to pretreatment standards in 40 CFR
F.	Discharges subject to Pharmaceutical Categorical Standards (40 CFR 439) can be exempted from limitations and monitoring for Total Cyanide at the Pharmaceutical sample point(s) subject to the following certification:
	I certify, since the last discharge monitoring report, cyanide has not been used or generated in any pharmaceutical manufacturing process subject to Categorical Standards in 40 CFR 439.
G.	Discharges Subject to Categorical Standards for Electroplating (40 CFR 413), Metal Finishing (40 CFR 433) or Electrical & Electronic Components (40 CFR 469) can be exempted from TTO monitoring only at the Electroplating, Metal Finishing or Electrical & Electronic Components sample point(s) subject to the following certification: Based on my inquiry of the person or persons directly responsible for managing compliance with the permit limitation for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewaters has occurred since filing the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to MSD.
PART	
	e box for statement A if it applies to you. Everyone must complete the information under statement B and sign this report.
A.	Discharges at sample points subject only to MSD Ordinance limits can be exempted from TTO monitoring subject to the following certification: In lieu of monitoring for TTO at sample point(s), I certify that to the best of my knowledge and belief, no toxic organics have been used at this premise or discharged into the wastewaters since filing of the last discharge monitoring report.
8.	DISCHARGE MONITORING REPORT CERTIFICATION
who man and belie	under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system of to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons trage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge of, thus, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine risonment for knowing violations.
Print or t	ype name of signing official. Michael T. Kershaw
Title:	Huzzirdous Materials Division Managor Telephone: (314) 362-6735
Signature	=



PLEASE READ THE INSTRUCTIONS BEFORE COMPLETING THIS REPORT

PART I: IDENTIFYING INFORMATION		
Company Name: Washington University	School of Medicine	
Permit No:		hennoonnoonnoonnoonnoonnoonnoon
Premise Address: 660 S. Euclid	St. Louis MO 63110	
Monitoring Period: □(JAN-MAR)	X(APR-JUNE) (JULY-SEPT) (Q	OT-DEC)
Samples Collected By:	Line Laboratories	
Analyses Performed By: St. Louis Tes	to tabasatics	
PART II: ANALYTICAL RESULTS OF SELF		Name and Association Section 1
PARTIE ANALYTICAL RESULTS OF SEEL	month of the second	
MSD SAMPLE POINT REFERENCE NUMBERS>	006	
DATES ON WHICH SAMPLES WERE COLLECTED>	C-12/2 - 5/3/61 - 5/3/61	
TIMES AT WHICH SAMPLES WERE COLLECTED>	Grab- 10:56 am.	
	RECORD SAMPLE TYPES (G, C, M CR E) AND RESULTS BELCW	
PARAMETER LIMIT	G=grab, C=composite, M=measured flow, E=estimated flow	UNITS
FLOW	E 2665	GAD
800	C <10	my/L
COD	C 3/	m
T35	C a6 WECDECO	SHI. pttuits
o#	G 8.76 P	ma/s
Oil & Grease	(G 8)	C.
Temprature	G 23.0	mg/
Silver	C <0.05	94
Page 100 and 1		18

You must complete and sign the certification statements on the reverse side.

PART III:

SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify one or more of the following. Please review your permit and PLACE YOUR INITIALS IN THE BOXES NEXT TO THOSE CERTIFICATIONS WHICH ARE APPLICABLE TO YOUR FACILITY. If your permit contains no Special Conditions, then none of the certifications in PART III apply to you. GO ON TO PART IV.

A.	If your permit special conditions waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification:
	I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sampling point(s)
8.	If your permit special conditions waive monitoring at active connection points which are not specified as sample points in your permit, you are required to make the following certification:
	I certify, since the last discharge monitoring report, there has been no change in the character of wastes discharged at those active connection points which are not specified in my permit.
C.	If your permit special conditions waive monitoring at inactive connection points, you are required to make the following certification: I certify, since the permit issue date, there has been no change in the status of connection points identified as inactive. These points remain inactive and no discharge occurred during the period covered by this report.
O.	If your permit special conditions authorize grab sample collection in lieu of composite sampling at any sample point(s), you are required to make the following certification:
	I certify the grab sample results in this report accurately represent our average daily discharge at sample point(s)
Fine.	If your permit special conditions prohibit discharge of wastes which are subject to certain categorical pretreatment standards, you are required to make the following certification:
	I certify, since the last discharge monitoring report, there has been no discharge of wastes which are subject to pretreatment standards in 40 CFR
F.	Discharges subject to Pharmaceutical Categorical Standards (40 CFR 439) can be exempted from limitations and monitoring for Total Cyanide at the Pharmaceutical sample point(s) subject to the following certification:
	I certify, since the last discharge monitoring report, cyanide has not been used or generated in any pharmaceutical manufacturing process subject to Categorical Standards in 40 CFR 439.
G.	Discharges Subject to Categorical Standards for Electroplating (40 CFR 413), Metal Finishing (40 CFR 433) or Electronic Components (40 CFR 469) can be exempted from TTO monitoring only at the Electroplating, Metal Finishing or Electrical & Electronic Components sample point(s) subject to the following certification:
	Based on my inquiry of the person or persons directly responsible for managing compliance with the permit limitation for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewaters has occurred since filling the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to MSD.
PART	V: GENERAL CERTIFICATION STATEMENTS
nitial th	box for statement A if it applies to you. Everyone must complete the information under statement 3 and sign this report.
	Discharges at sample points subject only to MSD Ordinance limits can be exempted from TTO monitoring subject to the following certification: In lieu of monitoring for TTO at sample point(s)
J	DISCHARGE MONITORING REPORT CERTIFICATION
esigned tho mar nd belie	nder penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system to assure that qualified personnel property gather and evaluate the information submitted. Based on my inquiry of the person or persons age the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge f, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine sonment for knowing violations.
	· · ·
itle:	Huzzirdous Materials Division Manuson Telephone: (314) 362-6735
ianan	Mil No Links

2

MET POLITAN ST. LOUIS SEWER DISTRICT INDUSTRIAL USER RADIOACTIVE MATERIALS DISCHARGE REPORT

PART I: IDENTIFYING INFORMATION	•
Company Name: Washington University School	of Medicine - blogs west of Euclid
Permit No: 51122142-00	
Premise Address: 660 S. Eyelid	St Louis MO 63110
Reporting Period: D(JAN-MAR) D(AP	R-JUNE) [(JULY-SEPT) [(OCT-DEC)
PART II: RECORD OF DISPOSAL OF RADIOACT	
4	
RADIONUCLIDE	ACTIVITY DISCHARGED (millicuries)
H-2	5.284
P-32	0.479
<u>S-35</u>	0, 255
(-14	0.120
I-125	0,063
P-33	0.036
TOTAL ACTIVITY DISCUSSOR	(00 = 0
TOTAL ACTIVITY DISCHARGED:	6.237 mC;
PART III: CERTIFICATION STATEMENTS	
Place your initials in the box under item Everyone must complete the information und	A. er items A & B and sign this report.
A. CERTIFICATION OF COMPLIANCE WITH STATE	
regulated by the Nuclear Regulatory Commission	In and the Miccouri Donombroom of Health
tively, have been met for the period covered	by this report.
B. RADIOACTIVE MATERIALS DISCHARGE REPOR	RT CERTIFICATION
I certify under penalty of Law that this document are direction or supervision in accordance with a system properly gather and evaluate the information submitted persons who manage the system, or those persons directly the information submitted is, to the best of my known I am aware that there are significant penalties for possibility of fine and imprisonment for knowing vices.	n designed to assure that qualified personnel ced. Based on my inquiry of the person or eactly responsible for gathering the information, vledge and belief, true, accurate, and complete.
Print/type name of signing official: Dani	el J Szatkowsk;
	er Telephone: (3/4)362-3479
Signature: Danie J huthou	Date:

MET POLITAN ST. LOUIS SEWER DISTRICT INDUSTRIAL USER RADIOACTIVE MATERIALS DISCHARGE REPORT

PART I: IDENTIFYING INFORMATION	MATERIALS DISCHARGE REPORT
Company Name: Washington University School	of Medicine - Holes east of E. I.al
Permit No: 51122142-00	3 2931 81 2461,61
Premise Address: 660 S. Euclid S	7 Louis MO 63110
	PR-JUNE)
PART II: RECORD OF DISPOSAL OF RADIOACT	
	THE SEWER SISTEM
RADIONUCLIDE	ACTIVITY DISCHARGED (millicuries)
H-3	60,940
ρ-32	0.642
5-35	0.097 JEGETVE
1-125	7, 6/1 JUL 18 2001
	OFFICE CF ENVIRONMENT L COMPLIAN
	THE PROPERTY OF THE PROPERTY O
TOTAL ACTIVITY DISCHARGED:	71.331 m Ci
PART III: CERTIFICATION STATEMENTS	
Place your initials in the box under item Everyone must complete the information und	A. ler items A & B and sign this report.
A. CERTIFICATION OF COMPLIANCE WITH STA	
I certify that to the best of my knowledge &	belief, all requirements of 10 CFR Part 20.2003
IN ICI and 15 Con Fail 20-10.090 doverning disposal	Dy release into sanitary sewage for material
B. RADIOACTIVE MATERIALS DISCHARGE REPOR	
I certify under penalty of Law that this document as direction or supervision in accordance with a system properly gather and evaluate the information submit persons who manage the system, or those persons directly information submitted is, to the best of my known I am aware that there are significant penalties for possibility of fine and imprisonment for knowing vices.	m designed to assure that qualified personnel ted. Based on my inquiry of the person or eactly responsible for gathering the information, wledge and belief, true, accurate, and complete.
Print/type name of signing official: Dan	ijel J Szatkowski
Title: Assistant Radiation Safety Office.	Telephone: (3/4)362-3479
Signature: Danie of fut house	Date: 7-/7-0) radrpt.doc 2/00

PMT FILE #51122142 00

SCHOOL OF MEDICINE

Environmental Health & Safety

July 9, 2001

CERTIFIED MAIL

RE: Notice of Permit Violations
Department of Environmental Compliance
Metropolitan St. Louis Sewer District
10 East Grand Avenue
St. Louis, MO 63147-2913

To Whom It May Concern:

On June 18, 2001, Washington University School of Medicine received a correspondence from Mr. Fabian T. Grabski of the Metropolitan St. Louis Sewer District (MSD). The correspondence was a Notice of Permit Violations (NOPV) in reference to discharge permit number 51122162-00. In response to the NOPV, Mr. Grabski requested that Washington University School of Medicine (WUSM) submit a report of corrective actions taken by WUSM to correct the violation cited as Violations of Permit Terms/Conditions in the NOPV.

EXPLANATION OF VIOLATION

The NOPV was issued by the Metropolitan St. Louis Sewer District (MSD) in response to a violation of discharge limitations located at Sample Point 006 for Oil & Grease.

CORECTIVE ACTIONS

Washington University School of Medicine has taken additional samples from the sample point. A total of four samples from Sample Point 006 have been analyzed for Oil & Grease in the six-month period from January 1, 2001 to June 30, 2001. Of the four samples, one was above the permit limit. Thus, less than 33% of the samples were above the limit during the six-month period.

An ongoing investigation will continue in an effort to identify the source of the oil and grease found at Sample Point 006.

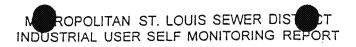
If you have any questions or further concerns, please contact me at 362-6735.

Sincerely.

Michael T. Kershaw

101- 16 2009

Washington University School of Medicine at Washington University Medical Center, Campus Box 8229 660 S. Euclid Avenue, St. Louis, Missouri 63110-1093, (314) 362-6816, Fax (314) 362-1995, esafety@msnotes.wustl.edu, www.ehs.wustl.edu



PLEASE READ THE INSTRUCTIONS BEFORE COMPLETING THIS REPORT

PART I: IDENTIFYING INFORMA					1			
Company Name: Washington U	niversitu	Sa	hool of	Me	dicine			
Permit No: $5112262 - 6$ Premise Address: 6605.2 Monitoring Period: \Box (JAN-MAR)	Enclid		st. Louis	N	<i>10</i> 631	10		
Monitoring Period: □(JAN-MAR)	,		PR-ILINE)	<u> </u>	□(JULY-SEE	תי		CT-DEC)
Samples Collected By:	~ Teal	(/ 11 / -~10 - 4	1 abacata	ciè e		•,	(,
Samples Collected By: 5+ Lou	13 1 em	J	1-/	/				
Analyses Performed by. 5+ Lou.	15 185	Ting	5 -450147	2011			dulle te nonconnecent de la constant	
PART II: ANALYTICAL RESULTS	OF SELF	MUN	TORING					
MSD SAMPLE POINT REFERENCE NUMBERS	>	0	06	0	06	_ (206	
DATES ON WHICH SAMPLES WERE COLLECTED	>	5	5/29/01	6	11/01	6	10/66/	
TIMES AT WHICH SAMPLES WERE COLLECTED	>	10):56 am.	J	:45 p.m.	/	0.09.m.	
					G, C, M OR E) A	ID RE	SULTS BELOW	
PARAMETER	LIMIT	G=	grab, C=compos	ite, M	=measured flow,	E=es	stimated flow	UNITS
FLOW			266		2665		2665	
Oil & Grease	200mg/2	6	8	G	<5	G	25	mg/
0// 4 0.000	1		***************************************					
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You must complete and sign the certification statements on the reverse side.

JUL 10

PART III: SPECIAL

SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify one or more of the following. Please review your permit and PLACE YOUR INITIALS IN THE BOXES NEXT TO THOSE CERTIFICATIONS WHICH ARE APPLICABLE TO YOUR FACILITY. If your permit contains no Special Conditions, then none of the certifications in PART III apply to you. GO ON TO PART IV.

A.	If your permit special conditions waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification:
	I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sampling point(s)
В.	If your permit special conditions waive monitoring at active connection points which are not specified as sample points in your permit, yo are required to make the following certification:
	I certify, since the last discharge monitoring report, there has been no change in the character of wastes discharged at those active connection points which are not specified in my permit.
C.	If your permit special conditions waive monitoring at inactive connection points, you are required to make the following certification: I certify, since the permit issue date, there has been no change in the status of connection points identified as inactive. These points remain inactive and no discharge occurred during the period covered by this report.
D.	If your permit special conditions authorize grab sample collection in lieu of composite sampling at any sample point(s), you are required to make the following certification: I certify the grab sample results in this report accurately represent our average daily discharge at sample point(s)
-	
E.	If your permit special conditions prohibit discharge of wastes which are subject to certain categorical pretreatment standards, you are required to make the following certification:
	I certify, since the last discharge monitoring report, there has been no discharge of wastes which are subject to pretreatment standards in 40 CFR
F.	Discharges subject to Pharmaceutical Categorical Standards (40 CFR 439) can be exempted from limitations and monitoring for Total Cyanide at the Pharmaceutical sample point(s) subject to the following certification: I certify, since the last discharge monitoring report, cyanide has not been used or generated in any pharmaceutical manufacturing process subject to Categorical Standards in 40 CFR 439.
G.	Discharges Subject to Categorical Standards for Electroplating (40 CFR 413), Metal Finishing (40 CFR 433) or Electrical & Electronic Components (40 CFR 469) can be exempted from TTO monitoring only at the Electroplating, Metal Finishing or Electrical & Electronic Components sample point(s) subject to the following certification: Based on my inquiry of the person or persons directly responsible for managing compliance with the permit limitation for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewaters has occurred since filing the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to MSD.
PART	IV:GENERAL CERTIFICATION STATEMENTS-
Initial the	e box for statement A if it applies to you. Everyone must complete the information under statement B and sign this report.
Α.	Discharges at sample points subject only to MSD Ordinance limits can be exempted from TTO monitoring subject to the following certification: In lieu of monitoring for TTO at sample point(s), I certify that to the best of my knowledge and belief, no toxic organics have been used at this premise or discharged into the wastewaters since filing of the last discharge monitoring report.
B	DISCHARGE MONITORING REPORT CERTIFICATION
who man and belie	under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system to assure that qualified personnel property gather and evaluate the information submitted. Based on my inquiry of the person or persons nage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge of, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine risonment for knowing violations.
Print or t	type name of signing official: Michael T. Kershaw
Title:	Hazardous Materials, Division Managor Telephone: (314) 362-6735
Signature	

2



Metropolitan St. Louis Sev District



Office of Environmental Compliance 10 East Grand Avenue St. Louis, MO 63147-2913 (314) 436-8710 FAX (314) 436-8753

June 18, 2001

Michael T. Kershaw Hazardous Materials Division Manager WASHINGTON UNIVERSITY MEDICAL SCHOOL 660 S. Euclid Avenue Campus Box 8229 St. Louis, MO 63110

RE:

NOTICE OF PERMIT VIOLATIONS

Discharge Permit No: 51122162-00

For premise at:

660 S. Euclid Avenue

Dear Mr. Kershaw:

Thank you for your June 11, 2001 letter advising us of the results of recent monitoring of your wastewater discharge. That letter accompanied the first quarter 2001 self-monitoring report required under the terms of the above referenced permit. The following violations of permit limitations, terms or conditions were identified:

VIOLATIONS OF DISCHARGE LIMITATIONS:

		SAMP	SAMPLE		PERMIT	LIMIT	
DATE	TIME	PT	TYPE	PARAMETER	LIMITATION	TYPE	VALUE FOUND
02-07-01	0925	006	Grab	Oil & Grease (T)	200 mg/l	IN	740 mg/1**

= Total substance

mg/l = milligrams per liter

= Instantaneous

REQUIRED ACTION/RESPONSE:

Pursuant to Article VIII, Section 4.C of MSD Ordinance 8472, you are required to resample the discharge and to submit the results of analyses to the District, within thirty (30) days of your first becoming aware of the violation. Resampling must be performed for Oil & Grease at sampling point 006.

Submit a report of corrective actions, which you have initiated to ensure compliance with the permitted discharge limitation for Oil & Grease.

Refer to the enclosure for information on potential enforcement actions should noncompliance continue. The enclosure also explains the meaning of any asterisks which appear in the Value Reported column above. You should consider the percentages applicable to Significant Noncompliance when planning for additional sampling.

Please submit your response on the above items by July 16, 2001.

If you have any questions, please contact me at 436-8756.

ŔĸPOLITAN/ST. LQUIS SEWER DISTRICT

Fabian T. Grabski Assistant Engineer

bν

Enclosure

pc: suspense file

SCHOOL OF MEDICINE

Environmental Health & Safety

June 5, 2001

CERTIFIED MAIL

RE: Notice of Permit Violations

Department of Environmental Compliance Metropolitan St. Louis Sewer District 10 East Grand Avenue St. Louis, MO 63147-2913

To Whom It May Concern:

On May 18, 2001, Washington University School of Medicine received a correspondence from Mr. Fabian T. Grabski of the Metropolitan St. Louis Sewer District (MSD). The correspondence was a Notice of Permit Violations (NOPV) in reference to discharge permit number 51122162-00. In response to the NOPV, Mr. Grabski requested that Washington University School of Medicine (WUSM) submit a report of corrective actions taken by WUSM to correct the violation cited as Violations of Permit Terms/Conditions in the NOPV.

EXPLANATION OF VIOLATION

The NOPV was issued by the Metropolitan St. Louis Sewer District (MSD) because of an alleged failure to receive the WUSM quarterly report of analysis for regulated substances as required by the discharge permit referenced above. The sampling and analysis required by MSD was completed during the quarter and documented by St. Louis Testing Laboratories, Incorporated. However, it is not known why the report did not reach MSD as required.

CORECTIVE ACTIONS

esafety@msnotes.wustl.edu, www.ehs.wustl.edu

Washington University School of Medicine will take corrective actions to ensure compliance with the Industrial Wastewater Discharge permit. The corrective actions will include the following:

 Submit a completed report and signed certification to MSD using the analytical results obtained for the quarter in question

Washington University School of Medicine at Washington University Medical Center, Campus Box 8229 660 S. Euclid Avenue, St. Louis, Missouri 63110-1093, (314) 362-6816, Fax (314) 362-1995,

DEREIVED

JUN 11 2001

WASHINGTON UNIVERSITY SCHOOL OF MEDICINE ENVIRONMENTAL SAFETY OFFICE

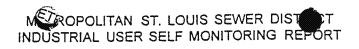
- Ensure that future reports reach MSD by sending each report as certified mail
- Ensure that each report is sent prior to the deadline for each quarter by setting up an automatic internal checks and balances system

If you have any questions or further concerns, please contact me at 362-6735.

Sincerely,

Michael T. Kershaw

MSD 044060



PLEASE READ THE INSTRUCTIONS BEFORE COMPLETING THIS REPORT

PART I: IDENTIFYING INFORMAT	ПОИ						EGEU	
Company Name: Washington U	Invers.	iL	School a	1	Medicin	ا ا	\parallel JUN 11	ZUUI DI
Permit No:	0	7					OFFICE OF ENVIRONMENT	AL COMPLIANCE
Premise Address: 660 S. Ed	actid	54	Louis.	140	63110			
Monitoring Period: X(JAN-MAR)	7		R-JUNE)		□(JULY-SEF	PT)	□(0	CT-DEC)
Samples Collected By:	is Test	ihs .	Laborator	1				
Analyses Performed By: 54. Louis	Test	ihs	Laborator	1				
PART II: ANALYTICAL RESULTS				•				
MSD SAMPLE POINT REFERENCE NUMBERS			201		00 2 /	C	05/	
DATES ON WHICH SAMPLES WERE COLLECTED	The state of the s	1/2-6	2/7/01	616	2/4-9/01	Con	6 2/7/01 -0 2/6-7/01	i iir
TIMES AT WHICH SAMPLES WERE COLLECTED		Il cont	10:15 mm	Gook	- 10:359.h	Gab	9:45 0.4.	
TIMES AT WATCH SAME CES WERE GOESSONS				•	, C, M OR E) AI			
PARAMETER	LIMIT	G=	grab, C=compos	ite, M	=measured flow,	E=es	timated flow	UNITS
FLOW	<u>anninnandergennumnumnumnhaldister</u>	E	55,850	E	3,445	E	555150	GPD
BOD		C	49	<u></u>	147	ے	30	mg/e
coD .		<u>C</u>	116	<u></u>	310	C	78	mg/g
T55		C	54	<u>C</u>	177	C	27	mg/l
ρH		G	8.73	6	8.44	G	9,29	Stellunds /a
Oil & Grease		G	5	G	8	G	45	my/l
Temperature		G	21.5	G	19.0	G	18.0 <0.05	maple
Silver		1	Lo.05	<u></u>	0,15	_	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	113/1
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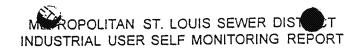
You must complete and sign the certification statements on the reverse side.

PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify one or more of the following. Please review your permit and PLACE YOUR INITIALS IN THE BOXES NEXT TO THOSE CERTIFICATIONS WHICH ARE APPLICABLE TO YOUR FACILITY. If your permit contains no Special Conditions, then none of the certifications in PART III apply to you. GO ON TO PART IV.

A.	If your permit, special conditions waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification:
	I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sampling point(s)
8.	If your permit special conditions waive monitoring at active connection points which are not specified as sample points in your permit, you are required to make the following certification:
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D.	If your permit special conditions authorize grab sample collection in lieu of composite sampling at any sample point(s), you are required to make the following certification:
	I certify the grab sample results in this report accurately represent our average daily discharge at sample point(s)
E.	If your permit special conditions prohibit discharge of wastes which are subject to certain categorical pretreatment standards, you are required to make the following certification:
	I certify, since the last discharge monitoring report, there has been no discharge of wastes which are subject to pretreatment standards in 40 CFR
F.	Discharges subject to Pharmaceutical Categorical Standards (40 CFR 439) can be exempted from limitations and monitoring for Total Cyanide at the Pharmaceutical sample point(s) subject to the following certification: I certify, since the last discharge monitoring report, cyanide has not been used or generated in any pharmaceutical manufacturing process subject to Categorical Standards in 40 CFR 439.
G.	Discharges Subject to Categorical Standards for Electroplating (40 CFR 413), Metal Finishing (40 CFR 433) or Electrical & Electronic Components (40 CFR 469) can be exempted from TTO monitoring only at the Electroplating, Metal Finishing or Electrical & Electronic Components sample point(s) subject to the following certification: Based on my inquiry of the person or persons directly responsible for managing compliance with the permit limitation for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewaters has occurred since filling the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to MSD.
PART I	V: GENERAL CERTIFICATION STATEMENTS
Initial the	box for statement A if it applies to you. Everyone must complete the information under statement B and sign this report.
Α.	Discharges at sample points subject only to MSD Ordinance limits can be exempted from TTO monitoring subject to the following certification: In lieu of monitoring for TTO at sample point(s)
3	DISCHARGE MONITORING REPORT CERTIFICATION
vho mana ind belief,	nder penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system to assure that qualified personnel property gather and evaluate the information submitted. Based on my inquiry of the person or persons age the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine somment for knowing violations.
orint or ty	pe name of signing official: Mike Kershac
ītle:	Hazardous Materials Malnager Telephone: 314-362-6735
ignature:	mg / Date: 5/23/01

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PLEASE READ THE INSTRUCTIONS BEFORE COMPLETING THIS REPORT

PART I: IDENTIFYING INFORMA	TION					NE	GEIV	
Company Name: Washington Up	rive sity	/ 4	school of	N	Pedicine		JUN 1 1 20	<u>01 10 </u>
Permit No: 5/22/62-0	20 1	***************************************				Tuesd	EOFERNIROUMENTALCO	MPLIANCE
Premise Address: <u>660 5, Eur</u>	did	54.	Louis, 1	10_	63116			
Monitoring Period: X(JAN-MAR)	, (□(AP	R-JUNE)		□(JULY-SEF	T)	□(C	CT-DEC)
Samples Collected By: 54. Lo	uis Tes	the	Laborator	y ·			,	·
Analyses Performed By: St. Low								
PART II: ANALYTICAL RESULTS				/				
MSD SAMPLE POINT REFERENCE NUMBERS	>		206				edita di Casagoria possali na del represe gran an alta edita del 200 del 200 del 200 del 200 del 200 del 200 d Casagoria del 200 del	
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TIMES AT WHICH SAMPLES WERE COLLECTED				(PES (G, C, M OR E) A	D RES	SULTS BELOW	
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FLOW		E	2665	640				GPD
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COD		2	35					mall
T55		0	10					mye
pH	***************************************	G	7.53	<u> </u>		<u></u>		SH. Phonis
Oil & Greage		G	740	ļi	and the second s			my
Temperature		G	16.0	┦	annaire shalf tire the construction of the free construction of the fre			Co
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You must complete and sign the certification statements on the reverse side.

PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify one or more of the following. Please review your permit and PLACE YOUR INITIALS IN THE BOXES NEXT TO THOSE CERTIFICATIONS WHICH ARE APPLICABLE TO YOUR FACILITY. If your permit contains no Special Conditions, then none of the certifications in PART III apply to you. GO ON TO PART IV.

A.	If your permit special conditions waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification:
	I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sampling point(s)
8.	If your permit special conditions waive monitoring at active connection points which are not specified as sample points in your permit, you are required to make the following certification:
	I certify, since the last discharge monitoring report, there has been no change in the character of wastes discharged at those active connection points which are not specified in my permit.
C.	If your permit special conditions waive monitoring at inactive connection points, you are required to make the following certification: I certify, since the permit issue date, there has been no change in the status of connection points identified as inactive. These points remain inactive and no discharge occurred during the period covered by this report.
D.	If your permit special conditions authorize grab sample collection in lieu of composite sampling at any sample point(s), you are required to make the following certification:
	I certify the grab sample results in this report accurately represent our average daily discharge at sample point(s)
E.	If your permit special conditions prohibit discharge of wastes which are subject to certain categorical pretreatment standards, you are required to make the following certification:
	I certify, since the last discharge monitoring report, there has been no discharge of wastes which are subject to pretreatment standards in 40 CFR
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G.	Discharges Subject to Categorical Standards for Electroplating (40 CFR 413), Metal Finishing (40 CFR 433) or Electrical & Electronic Components (40 CFR 469) can be exempted from TTO monitoring only at the Electroplating, Metal Finishing or Electrical & Electronic Components sample point(s) subject to the following certification: Based on my inquiry of the person or persons directly responsible for managing compliance with the permit limitation for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewaters has occurred since filing the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to MSD.
PART	IV: GENERAL CERTIFICATION STATEMENTS
Initial th	e box for statement A if it applies to you. Everyone must complete the information under statement B and sign this report.
A.	Discharges at sample points subject only to MSD Ordinance limits can be exempted from TTO monitoring subject to the following certification: In lieu of monitoring for TTO at sample point(s)
8	DISCHARGE MONITORING REPORT CERTIFICATION
who mai and beli and imp	under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system of to assure that qualified personnel property gather and evaluate the information submitted. Based on my inquiry of the person or persons nage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge of, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine risonment for knowing violations. Type name of signing official: Mike Kershaw
Title:	Hazardoug Materials Nivision Manager Telephone: 314-367-6735
Signatur	
	• •

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INDUSTRIAL USER SELF MONITORING REPORT PAGE 2

PART III: SPECIAL CERTIFICATION STATEMENTS

	d on the special conditions contained in your discharge permit you may be required to certify one or more of the following. Please review your it and PLACE YOUR INITIALS IN THE BOXES NEXT TO THOSE CERTIFICATIONS WHICH ARE APPLICABLE TO YOUR FACILITY. If your it contains no Special Conditions, then none of the certifications in PART III apply to you. GO ON TO PART IV.
A.	If your permit special conditions waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification:
	I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sampling point(s)
8.	If your permit special conditions waive monitoring at active connection points which are not specified as sample points in your permit, you are required to make the following certification:
	I certify, since the last discharge monitoring report, there has been no change in the character of wastes discharged at those active connection points which are not specified in my permit.
C.	If your permit special conditions waive monitoring at inactive connection points, you are required to make the following certification: I certify, since the permit issue date, there has been no change in the status of connection points identified as inactive. These points remain inactive and no discharge occurred during the period covered by this report.
D.	If your permit special conditions authorize grab sample collection in lieu of composite sampling at any sample point(s), you are required to
	I certify the grab sample results in this report accurately represent our average daily discharge at sample point(s)
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G.	Discharges Subject to Categorical Standards for Electroplating (40 CFR 413), Metal Finishing (40 CFR 433) or Electrical & Electronic Components (40 CFR 469) can be exempted from TTO monitoring only at the Electroplating, Metal Finishing or Electrical & Electronic Components sample point(s) subject to the following certification: Based on my inquiry of the person or persons directly responsible for managing compliance with the permit limitation for total toxic organics (TTO). I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewaters has occurred since filing the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to MSD.
PART	
Initial th	e box for statement A if it applies to you. Everyone must complete the information under statement 8 and sign this report.
A.	Discharges at sample points subject only to MSD Ordinance limits can be exempted from TTO monitoring subject to the following certification: In lieu of monitoring for TTO at sample point(s)
8.	DISCHARGE MONITORING REPORT CERTIFICATION
who man	under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons nage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge of, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine risonment for knowing violations.
Print or	type name of signing official: Mike Kershaw
Title:	Hazqidous Material < Manager Telephone: 314-362-6735
Signature	5/3/a



Metropolitan St. Louis Sever District

Office of Environmental Compliance 10 East Grand Avenue St. Louis, MO 63147-2913 (314) 436-8710 FAX (314) 436-8753

May 14, 2001

Bruce Backus
Director of EH&S
WASHINGTON UNIVERSITY MEDICAL SCHOOL
660 S. Euclid Avenue
Campus Box 8229
St. Louis, MO 63110

RE:

NOTICE OF PERMIT VIOLATIONS
Discharge Permit No: _51122162-00

For premise at:

660 S. Euclid Avenue

Dear Mr. Backus:

Under the terms and conditions of the above referenced permit, you are required to self-monitor the discharge at the identified sampling points. Monitoring is to be performed for the parameters listed and at the frequency specified in the permit. The results are to be reported quarterly. Your report for first quarter of 2001 was due by April 28, 2001.

VIOLATIONS OF PERMIT TERMS/CONDITIONS:

The first quarter self-monitoring report has not been received by the District. This is in violation of permit standard condition I.A.1 which requires sampling and analyses for all regulated substances at the frequencies specified at your sampling points. Since no report was submitted, you did not satisfy the first quarter's reporting requirements.

The reporting requirements of your permit also includes completing a certain certification for each quarter. Even if sampling and analytical requirements can not be met, the report should still be submitted with the applicable certification completed. The violation will then be recorded as an incomplete report rather than "no report".

REQUIRED ACTION/RESPONSE:

Submit the first quarter 2001 report with the applicable certifications completed, any available first quarter self-monitoring data, and a report of corrective actions, which you have initiated, to ensure that the reporting requirements will be met in future reporting quarters.

Failure to perform the monitoring and reporting requirements of your permit places your company in Significant Noncompliance (SNC), as defined in District ordinance 8472 and federal pretreatment regulations 40 CFR 403. SNC companies are subject to enforcement action by the District. At a minimum, the District is required to list SNC companies in an annual newspaper publication.

Please submit your first quarter report and corrective action response by June 11, 2001. If you have any questions, please contact me at 436-8756.

METROPOLITAN ST/ LØDIS SEWER DISTRICT

Fabian T. Grabski Assistant Engineer

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pc: suspense file

METROPOLITAN ST. LOUIS SEWER DISTRICT INDUSTRIAL USER RADIOACTIVE MATERIALS DISCHARGE REPORT

PART I: IDENTIF	YING INFORMATION	•		
Company Name:	oshington Univ	versity Schoolo	f Med. Bldgs w	est of Euclid
Permit No: 51122	402-00			,
Premise Address:	660 S. Eucl	id Ave StL	ouis MO 6	3110
Reporting Period:	☑ (JAN-MAR)	□ (APR-JUNE)	□(JULY-SEPT)	□(OCT-DEC)

PART II: RECORD OF DISPOSAL OF RADIOACTIVE MATERIALS TO THE SEWER SYSTEM

RADIONUCLIDE	ACTIVITY DISCHARGED (millicuries)
H-3	4.568
<u>ρ-32</u> 5-35	0.785
C-14	0.326
I-125	0.134
P-33	0,092
TOTAL ACTIVITY DISCHARGED:	6.017 mC:

PART III: CERTIFICATION STATEMENTS

Place your initials in the box under item A. Everyone must complete the information under items A & B and sign this report.

- A. CERTIFICATION OF COMPLIANCE WITH STATE AND FEDERAL REGULATIONS
- I certify that to the best of my knowledge & belief, all requirements of 10 CFR Part 20.2003 and 19 CSR Part 20-10.090 governing disposal by release into sanitary sewage for material regulated by the Nuclear Regulatory Commission and the Missouri Department of Health, respectively, have been met for the period covered by this report.
- B. RADIOACTIVE MATERIALS DISCHARGE REPORT CERTIFICATION

I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print/type name of signing official: Daniel J	Szatkowski
Title: Assistant Radiation Safety Officer.	Telephone: (3/4)362-3479
Signature: Danie of huthoral	Date: 4-24-01
	radrpt.doc 2/00

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DUSTRIAL	USER	RADIO	ACTT	VF.	MAT	PDTALC	DISTRICT DISCHARGE	~	
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						•			

PART I: IDENTIFYING	INFORMATION	•	APR	2 5 2001
Company Name: Washing	gton University	School of Med	icine - blogs Engine	legta Leciclist
Permit No:	2-00	,		
Premise Address: 660	S. Euclid	Ave. St Louis	mo 63110	
Reporting Period:		□(APR-JUNE)	□(JULY-SEPT)	□(OCT-DEC)

RECORD OF DISPOSAL OF RADIOACTIVE MATERIALS TO THE SEWER SYSTEM PART II:

RADIONUCLIDE	ACTIVITY DISCHARGED (millicuries)
H-3	43.501
ρ-32 5-35	0.677
C-14	0.225
I-125	0.008
C.	
TOTAL ACTIVITY DISCHARGED:	44.614 mC;

PART III: CERTIFICATION STATEMENTS

Place your initials in the box under item A. Everyone must complete the information under items A & B and sign this report.

CERTIFICATION OF COMPLIANCE WITH STATE AND FEDERAL REGULATIONS

I certify that to the best of my knowledge & belief, all requirements of 10 CFR Part 20.2003 and 19 CSR Part 20-10.090 governing disposal by release into sanitary sewage for material regulated by the Nuclear Regulatory Commission and the Missouri Department of Health, respec-015 tively, have been met for the period covered by this report.

RADIOACTIVE MATERIALS DISCHARGE REPORT CERTIFICATION

I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print/type name of signing official: $\underline{Daniel\ J}$	Szatkowski
Title: Assistant Radiation Safety Officer	Telephone: (3/4) 362-347 9
Signature: Danie of Gut komst	Date: 4-24-01
	radrot.doc 2/0



MEROPOLITAN ST. LOUIS SEWER DISTORT INDUSTRIAL USER SELF MONITORING REPORT

1 Sept

PLEASE READ THE INSTRUCTIONS BEFORE COMPLETING THIS REPORT

PART I: IDENTIFING INTOKMATIC		·		,	•	•		
Company Name: Washington Univer	isity	Scho	nol of Me	dica	he			
Permit No: 5/122/62-00	*							
Premise Address: 660 S. Eucli	<u>d</u> :	54.	Louis, MC	2	63110			
Monitoring Period: □(JAN-MAR)	(⊐(AP	R-JUNE)		□(JULY-SEF	T)	X (0)	CT-DEC)
Samples Collected By: 51. Louis	Testin	L	Laboratori	હિંદ		,		
Analyses Performed By: St. Louis								
		1						
PART II: ANALYTICAL RESULTS O			TOMING					
MSD SAMPLE POINT REFERENCE NUMBERS -	>_	0	06		-		· ·	3.2
DATES ON WHICH SAMPLES WERE COLLECTED -	>_	Gili	411, C:1411-12					
TIMES AT WHICH SAMPLES WERE COLLECTED _	ì		50gm C: 11:0gm				-Style-Commonweal - Style-Commonweal	
		1	CORD SAMPLE TYP	ES (, C, M OR E) AN	D RES	SULTS BELOW	
PARAMETER	LIMIT	G=	grab, C=composi	te, M	=measured flow,	E=es	timated flow	UNITS
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800		7	118					nak
CON		C	241					mg/l
T3S		6	74				·	Il
ρĦ		G	7.98					of units
Oil & Grease		G	<5					mg/R
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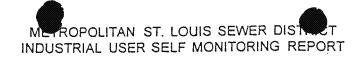
You must complete and sign the certification statements on the reverse side.

PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify one or more of the following. Please review your permit and PLACE YOUR INITIALS IN THE BOXES NEXT TO THOSE CERTIFICATIONS WHICH ARE APPLICABLE TO YOUR FACILITY. If your permit contains no Special Conditions, then none of the certifications in PART III apply to you. GO ON TO PART IV.

A.	If your permit special conditions waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification:
	I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sampling point(s)
В.	If your permit special conditions waive monitoring at active connection points which are not specified as sample points in your permit, you are required to make the following certification: 1 certify, since the last discharge monitoring report, there has been no change in the character of wastes discharged at those active connection points which are not specified in my permit.
C.	If your permit special conditions waive monitoring at inactive connection points, you are required to make the following certification: I certify, since the permit issue date, there has been no change in the status of connection points identified as inactive. These points remain inactive and no discharge occurred during the period covered by this report.
D.	If your permit special conditions authorize grab sample collection in lieu of composite sampling at any sample point(s), you are required to make the following certification: I certify the grab sample results in this report accurately represent our average daily discharge at sample point(s)
E.	If your permit special conditions prohibit discharge of wastes which are subject to certain categorical pretreatment standards, you are required to make the following certification: 1 certify, since the last discharge monitoring report, there has been no discharge of wastes which are subject to pretreatment standards in 40 CFR
F	Discharges subject to Pharmaceutical Categorical Standards (40 CFR 439) can be exempted from limitations and monitoring for Total Cyanide at the Pharmaceutical sample point(s) subject to the following certification: I certify, since the last discharge monitoring report, cyanide has not been used or generated in any pharmaceutical manufacturing process subject to Categorical Standards in 40 CFR 439.
G	Discharges Subject to Categorical Standards for Electroplating (40 CFR 413), Metal Finishing (40 CFR 433) or Electrical & Electronic Components (40 CFR 469) can be exempted from TTO monitoring only at the Electroplating, Metal Finishing or Electrical & Electronic Components sample point(s) subject to the following certification: Based on my inquiry of the person or persons directly responsible for managing compliance with the permit limitation for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewaters has occurred since filing the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to MSD.
	IV:GENERAL_CERTIFICATION_STATEMENTS
A.	Discharges at sample points subject only to MSD Ordinance limits can be exempted from TTO monitoring subject to the following certification: In lieu of monitoring for TTO at sample point(s), I certify that to the best of my knowledge and belief, no toxic organics have been used at this premise or discharged into the wastewaters since filing of the last discharge monitoring report.
8. .	DISCHARGE MONITORING REPORT CERTIFICATION
designed who man and belie	under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system to assure that qualified personnel property gather and evaluate the information submitted. Based on my inquiry of the person or persons lage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge of, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine risonment for knowing violations.
Print or t	type name of signing official. Michael T. Kershaw
Title:	Hazardous Materials Division Manager Telephone: (314) 362-6735
Signature	a:

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PLEASE READ THE INSTRUCTIONS BEFORE COMPLETING THIS REPORT

PART I: IDENTIFYING INFORMATION					A 200		d care people	
Company Name: Washington University	sity	<u>, </u>	chool of	M	edicine		***	1,
Permit No: 5/122162-00	./							
Premise Address: 660 S. Euclid,	5	4. 4	ouis, MO		53/10	A		
Monitoring Period: □(JAN-MAR)					□(JULY-SE	PT)	X (0	CT-DEC)
Samples Collected By: 54, Louis Tes-					······································		-	
Analyses Performed By: St. Louis Tes					LOCATION AND ADMINISTRA			
PART II: ANALYTICAL RESULTS OF S	-	_	,		·	•		
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MSD SAMPLE POINT REFERENCE NUMBERS	->_		<u>01</u>					21.2
DATES ON WHICH SAMPLES WERE COLLECTED	1	1	•	11	1/12, C:13/12-13	1	· ·	
TIMES AT WHICH SAMPLES WERE COLLECTED	->-	_	,		(:10 a.m. / : 1/:15a.n G, C, M OR E) AI		•	
PARAMETER LIM	ı T	i .			=measured flow,			UNITS
FLOW .		E	55,850	Ė	3,445	E	555,150	6-00
ROD		2	24	6	382	2	32	ms/e
CON		C	85	<	575	6	75	rsle
T-55		(40	(72		37	myll
0#		G	8.10	G	8.13	G	8.70	Std. pH mi
Oil & Gregge		G	<u> </u>	G	6	6	6.	mg/L
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You must complete and sign the certification statements on the reverse side.

Environmental Compliance

PART III:

SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify one or more of the following. Please review your permit and PLACE YOUR INITIALS IN THE BOXES NEXT TO THOSE CERTIFICATIONS WHICH ARE APPLICABLE TO YOUR FACILITY. If your permit contains no Special Conditions, then none of the certifications in PART III apply to you. GO ON TO PART IV.

A.	If your permit special conditions waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification:
	I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sampling point(s)
8.	If your permit special conditions waive monitoring at active connection points which are not specified as sample points in your permit, your required to make the following certification:
•	I certify, since the last discharge monitoring report, there has been no change in the character of wastes discharged at those active connection points which are not specified in my permit.
C.	If your permit special conditions waive monitoring at inactive connection points, you are required to make the following certification: I certify, since the permit issue date, there has been no change in the status of connection points identified as inactive. Thes points remain inactive and no discharge occurred during the period covered by this report.
D.	If your permit special conditions authorize grab sample collection in lieu of composite sampling at any sample point(s), you are required to make the following certification:
	1 certify the grab sample results in this report accurately represent our average daily discharge at sample point(s)
E.	If your permit special conditions prohibit discharge of wastes which are subject to certain categorical pretreatment standards, you are required to make the following certification:
	I certify, since the last discharge monitoring report, there has been no discharge of wastes which are subject to pretreatmen standards in 40 CFR
F.	Discharges subject to Pharmaceutical Categorical Standards (40 CFR 439) can be exempted from limitations and monitoring for Total Cyanide at the Pharmaceutical sample point(s) subject to the following certification: I certify, since the last discharge monitoring report, cyanide has not been used or generated in any pharmaceutical manufacturing process subject to Categorical Standards in 40 CFR 439.
G.	Discharges Subject to Categorical Standards for Electroplating (40 CFR 413), Metal Finishing (40 CFR 433) or Electrical & Electronic Components (40 CFR 469) can be exempted from TTO monitoring only at the Electroplating, Metal Finishing or Electrical & Electronic Components sample point(s) subject to the following certification: Based on my inquiry of the person or persons directly responsible for managing compliance with the permit limitation for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewaters has occurred since filling the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to MSD.
PART	IV: GENERAL CERTIFICATION STATEMENTS
nitial th	he box for statement A if it applies to you. Everyone must complete the information under statement B and sign this report.
۹.	Discharges at sample points subject only to MSD Ordinance limits can be exempted from TTO monitoring subject to the following certification: In lieu of monitoring for TTO at sample point(s)
3	DISCHARGE MONITORING REPORT CERTIFICATION
resigne vho ma ind beli	under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a systemed to assure that qualified personnel property gather and evaluate the information submitted. Based on my inquiry of the person or persons inage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge ief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine prisonment for knowing violations.
rint or	type name of signing official. Michael T. Kershaw
ītle:	Huzardous Materials Division Managor Telephone: (314) 362-6735
ignatu	



School of Medicine

ENVIRONMENTAL HEALTH & SAFETY

November 15, 2000

CERTIFIED MAIL

RE: Notice of Permit Violations

Department of Environmental Compliance Metropolitan St. Louis Sewer District 10 East Grand Avenue St. Louis, MO 63147-2913

To Whom It May Concern:

On November 15, 2000, Washington University School of Medicine received a correspondence from Mr. Fabian T. Grabski of the Metropolitan St. Louis Sewer District (MSD). The correspondence was a Notice of Permit Violations (NOPV) in reference to discharge permit number 51122162-00. In response to the NOPV, Mr. Grabski requested that Washington University School of Medicine (WUSM) submit a report of corrective actions taken by WUSM to correct the violation cited as Violations of Permit Terms/Conditions in the NOPV.

EXPLANATION OF VIOLATION

Over the course of the past year, sampling has taken place from sample point 004 on the Washington University School of Medicine campus. In January of 2000, analysis from sample point 004 showed high levels of oil and grease. Because it was highly unlikely that the building served by sample point 004 discharged the oil and grease, I was suspicious that the sample point contained effluent from other non-university sources. Thus, I showed an interest in changing the sample point for the building in question. At the annual Metropolitan Sewer District Inspection, James Goodall, MSD Environmental Engineering Associate, agreed to amend the Industrial Wastewater Discharge permit to include a sample point that served only the building for which we wanted to sample. This sample point was named sample point 006. After this change, I physically showed the new sample point to the sampling technician from St. Louis Testing Laboratory during his sampling for the third quarter of 2000. However, in error, I told them that the sample point was now sample point 004. Thus, the results listed in the quarterly self-monitoring report for sample point 004 are in actuality results for the analysis of sample point 006.

Washington University School of Medicine at Washington University Medical Center Campus Box 8229, 660 South Euclid Avenue St. Louis, Missouri 63110 (314) 362-6816 FAX: (314) 362-1995 www.ehs.wustl.edu esafety@msnotes.wustl.edu

NOV 1 6 2000

Environmental Comple. ve

CORECTIVE ACTIONS

Washington University School of Medicine will take corrective actions to ensure compliance with the Industrial Wastewater Discharge permit. The corrective actions will include the following:

- Notify St. Louis Testing Laboratory of the change in name of the sampling point
- Ensure that the analytical results for sample point 006 will be identified as such on the quarterly analysis report

If you have any questions or further concerns, please contact me at 362-6735.

Sincerely,

Michael T. Kershaw

REC= NOV 17 2000

Francisco Constituto

METS POLITAN ST. LOUIS SEWER DISTRICT INDUSTRIAL USER RADIOACTIVE MATERIALS DISCHARGE REPORT

IDENTIFYING INFORMATION	•						
Company Name: Washington University School of Medicine - bldgs east of Euclid							
Permit No:							
Premise Address: 660 S. Euclid Ave. St. Louis MO 63110							
Reporting Period: \(\propto(JAN-MAR) \) \(\propto(APR-JUNE) \) \(\propto(JULY-SEPT) \) \(\propto(OCT-DEC) \)							
	·						
	T						
	ACTIVITY DISCHARGED (millicuries)						
	40.161						
	0.834						
	0.169						
<u>C-14</u>	0.208						
I-125	0,060						
P-33	0.001						
Gd-153	0.010						
	JAN 1 9 Z 01						
TOTAL ACTIVITY DISCHARGED:	41.443 mC; Environmental Compliance						
CERTIFICATION STATEMENTS							
r initials in the box under item must complete the information und	A. Ler items A & B and sign this report.						
· ' A							
19 Cak Part 20-10.090 doverning disposal	by release into sanitary sewage for material						
IOACTIVE MATERIALS DISCHARGE REPOR	RT CERTIFICATION						
ther and evaluate the information submits manage the system, or those persons direction submitted is, to the best of my known to the system.	and all attachments were prepared under my make designed to assure that qualified personnel ted. Based on my inquiry of the person or ectly responsible for gathering the information, whedge and belief, true, accurate, and complete. submitting false information, including the plations.						
e name of signing official: Dani	el J Szatkowsk;						
	Telephone: (3/4) 362 -3479						
: David of futhoust	Date:						
	Name: Woshingtor University School of o: Address: 660 S. Euclied Ave. g Period:						

MET. P	DLITAN ST.	LOUIS SEWER	DISTRICT	51/22162-0
INDUSTRIAL USER	RADIOACTIV	VE MATERIALS	DISCHARGE	REPORT
		•		

PART 1: IDENTIFYING INFORMATION	•
Company Name: Washington University Schoo	Lof Medicine - blogs west of Euclid
Permit No:	J
Premise Address: 660 5. Euclid Aue.	St. Louis MO 63110
Reporting Period: \(\sigma(JAN-MAR)\) \(\sigma(AP	
PART II: RECORD OF DISPOSAL OF RADIOACT	, , ,
RADIONUCLIDE	ACTIVITY DISCHARGED (millicuries)
H-3 P-32	4.584
S-35	0.808 -0.372
C-14	0.024
I-125	0.150
ρ -33	0.025
<u>Cr-51</u> Fe -59	0.009
\mathcal{I}_{0} -11)	0.003
Car	
	(
TOTAL ACTIVITY DISCHARGED:	5.985 mC;
PART III: CERTIFICATION STATEMENTS	
	•
Place your initials in the box under item Everyone must complete the information und	A. Mer items A & B and sign this report.
A. CERTIFICATION OF COMPLIANCE WITH STATE	
I certify that to the best of my knowledge &	belief, all requirements of 10 CFR Part 20.2003
lair and is Con rait 20-10.090 doverning disposal	by release into sanitary sewage for material
B. RADIOACTIVE MATERIALS DISCHARGE REPOR	RT CERTIFICATION
I certify under penalty of Law that this document and direction or supervision in accordance with a system properly gather and evaluate the information submitted persons who manage the system, or those persons directly information submitted is, to the best of my known I am aware that there are significant penalties for possibility of fine and imprisonment for knowing vices.	m designed to assure that qualified personnel ted. Based on my inquiry of the person or eactly responsible for gathering the information, wledge and belief, true, accurate, and complete.
Print/type name of signing official: Dan	iel J Szatkowski
Title: Assistant Radiation Safety Office	Telephone: (3/4) 362 -3479
Signature: Danie 1 Routhoust	Date:
	radipt.doc 2/00



Metropolitan St. Louis S

Department of Environmental Compliance 10 East Grand Avenue St. Louis, MO 63147-2913 (314) 436-8710 FAX (314) 436-8753

November 3, 2000

Michael T. Kershaw
Hazardous Materials Manager
WASHINGTON UNIVERSITY MEDICAL SCHOOL
660 S. Euclid Avenue
Campus Box 8229
St. Louis, MO 63110

RE: NOTICE OF PERMIT VIOLATIONS

Discharge Permit No: 51122162-00

For premises at: 660 S. Euclid Avenue

We have reviewed the third quarter 2000 self-monitoring report you recently submitted to the District under the terms of the above referenced permit. The following violations of permit limitations, terms or conditions were identified:

VIOLATIONS OF PERMIT TERMS/CONDITIONS:

The report did not include results of analysis for sampling point 006. This is in violation of permit standard condition I.A.1 which requires sampling and analysis for all regulated substances at the frequencies specified. Pursuant to your permit, sampling point 006 requires monitoring and reporting on a quarterly bases. Please note that sampling point 006 replaced sampling point 004 via the District's July 1, 2000 permit modification for the above premise.

REQUIRED ACTION/RESPONSE:

Submit a report of corrective actions, which you have initiated, to ensure that the sampling and analytical requirements will be met in future reporting quarters. Please submit this response by November 27, 2000. Additionally, please monitor and report sampling points 001, 003, 005, and 006 during fourth quarter 2000.

Failure to perform the monitoring and reporting requirements of your permit places your company in Significant Noncompliance (SNC), as defined in District ordinance 8472 and federal pretreatment regulations 40 CFR 403. SNC companies are subject to enforcement action by the District. At a minimum, the District is required to list SNC companies in an annual newspaper publication.

If you have any questions, please contact me at 436-8756.

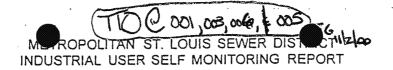
Sincerely

ETROPOLITAN, ST. LOUIS SEWER DISTRICT

Pabian T. Grabski Assistant Engineer

dss

pc: suspense file



PLEASE READ THE INSTRUCTIONS BEFORE COMPLETING THIS REPORT

PART I: IDENTIFYING INFORMAT	TION							W.A
Company Name: Washington Unite	ersitu s	s.ha	of mod	icihe	2_			
Permit No:	•							
Premise Address: 660 S. Euc		54.	Louis M	0	63110			- San Charles -
Monitoring Period: □(JAN-MAR)					⊠ (JULY-SEF		□(0	CT-DEC)
Samples Collected By: 5+. Louis								ور در
Analyses Performed By: St. Louis					esta.	45	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
PART II: ANALYTICAL RESULTS		~			SEO OF	(CL	1/20 /S	
MSD SAMPLE POINT REFERENCE NUMBERS	~>	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	2011	1	3	oc oc	24	
DATES ON WHICH SAMPLES WERE COLLECTED	>	7	-9/7/00	1	-9/1/00	9/	-//	1.7 (1.1.1)
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		7	ECORD SAMPLE TY			ID RE	SULTS BELOW	
PARAMETER	LIMIT	G=	grab, C=compos	ite, M	=measured flow,	E=es	timated flow	UNITS
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T 55		k_	19	<u>C</u>	36	<u>C</u>	<u> </u>	mg/L
o.H		G	8.73	G	7,92	G	8.98	pet upits
Oil & Grease		G	45	6	<u> </u>	G	<5	mg/L
Temperature		6	30.0	G	34.0	G	30.S	co,
Silver		C	20.05	(<i>40.</i> 05		<0.05	mg/L
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You must complete and sign the certification statements on the reverse side.

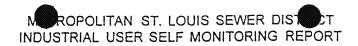
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PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge page 1	•
Based on the special conditions contained in your discharge permit you may be required to certify one or more of the following. Places your partials of the following.	ease review your
PERMIT AND PLACE FOOR INITIALS IN THE BOXES NEXT TO THOSE CERTIFICATIONS. WHICH ARE APPLICABLE TO YOUR E	ACILITY IFVOUR
permit contains no Special Conditions, then none of the certifications in PART III apply to you. GO ON TO PART IV.	AGILITT. IL YOUI
The standarding in 1 Att in apply to you, GO DIV 10 PART IV	

A.	If your permit special conditions waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification:
	I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sampling point(s)
В.	If your permit special conditions waive monitoring at active connection points which are not specified as sample points in your permit, you are required to make the following certification: I certify, since the last discharge monitoring report, there has been no change in the character of wastes discharged at those active connection points which are not specified in my permit.
c.	If your permit special conditions waive monitoring at inactive connection points, you are required to make the following certification: I certify, since the permit issue date, there has been no change in the status of connection points identified as inactive. These points remain inactive and no discharge occurred during the period covered by this report.
D.	If your permit special conditions authorize grab sample collection in lieu of composite sampling at any sample point(s), you are required to make the following certification: 1 certify the grab sample results in this report accurately represent our average daily discharge at sample point(s)
E.	If your permit special conditions prohibit discharge of wastes which are subject to certain categorical pretreatment standards, you are required to make the following certification: I certify, since the last discharge monitoring report, there has been no discharge of wastes which are subject to pretreatment standards in 40 CFR
F.	Discharges subject to Pharmaceutical Categorical Standards (40 CFR 439) can be exempted from limitations and monitoring for Total Cyanide at the Pharmaceutical sample point(s) subject to the following certification: I certify, since the last discharge monitoring report, cyanide has not been used or generated in any pharmaceutical manufacturing process subject to Categorical Standards in 40 CFR 439.
G.	Discharges Subject to Categorical Standards for Electroplating (40 CFR 413), Metal Finishing (40 CFR 433) or Electrical & Electronic Components (40 CFR 469) can be exempted from TTO monitoring only at the Electroplating, Metal Finishing or Electrical & Electronic Components sample point(s) subject to the following certification: Based on my inquiry of the person or persons directly responsible for managing compliance with the permit limitation for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewaters has occurred since filling the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to MSD.
PART	IV: GENERAL CERTIFICATION STATEMENTS
Initial th	he box for statement A if it applies to you. Everyone must complete the information under statement B and sign this report.
A.	Discharges at sample points subject only to MSD Ordinance limits can be exempted from TTO monitoring subject to the following certification: In lieu of monitoring for TTO at sample point(s)
3. _.	DISCHARGE MONITORING REPORT CERTIFICATION
who ma and beli and imp	under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system of to assure that qualified personnel property gather and evaluate the information submitted. Based on my inquiry of the person or persons inage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge ief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine prisonment for knowing violations. The Kelshaw
ītle:	Hazardous Materials Manager Telephone: -1451/00 314-362-6735
ignatur	18: MS Kl

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PLEASE READ THE INSTRUCTIONS BEFORE COMPLETING THIS REPORT

PART I: IDENTIFYING INFORMATI	ON							
Company Name: Washington Unive	usity.	≤ho.	of of Med	icihe	2			
Permit No: 5/122/62-	,	hallanilariinna nana-la-Anna						
Premise Address: 660 S. Euc	lid,	<u>S+.</u>	Louis M	0	63110			
Monitoring Period: □(JAN-MAR)						T)	(0	CT-DEC)
Samples Collected By: 5+. Louis	Testing	Lab	oratories					
Analyses Performed By: 54. Louis	Testin	2 La	boratories			***************************************	NORTH AND REPORTED THE PROPERTY OF THE PROPERT	
PART II: ANALYTICAL RESULTS O	OF SELF	MON	TORING /					-
MSD SAMPLE POINT REFERENCE NUMBERS	>	α	05 1					
DATES ON WHICH SAMPLES WERE COLLECTED	>	9/	5/00-9/6/00		***************************************		ann an ann an ann an ann an ann an ann an a	
TIMES AT WHICH SAMPLES WERE COLLECTED	>	10:3	OG 10:35 C				TOTAL SECTION AND ADDRESS OF THE SECTION	
		11	ECORD SAMPLE TY					
PARAMETER	LIMIT	G=	grab, C=composi	te, M	=measured flow,	E≃es	timated flow	STINU
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000	onnerione en e	1	_16				ordennakonnako (h. 6000)	mg/L
COD		1C	75				<u>.</u>	15/4
TSS		Ę	98					log/L
p#		G	8.7					SK pHunds
Oil & Glesse	an-enconcence-concentration	<u> </u>	<u> </u>					mg/l
Temperature		6	33.0		·			2
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	-							
					Environmental	Com	i Buáo	

You must complete and sign the certification statements on the reverse side.

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PART III:

SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify one or more of the following. Please review your permit and PLACE YOUR INITIALS IN THE BOXES NEXT TO THOSE CERTIFICATIONS WHICH ARE APPLICABLE TO YOUR FACILITY. If your permit contains no Special Conditions, then none of the certifications in PART III apply to you. GO ON TO PART IV.

A.	If your permit special conditions waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification:
	I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sampling point(s)
8.	If your permit special conditions waive monitoring at active connection points which are not specified as sample points in your permit, yo are required to make the following certification:
	I certify, since the last discharge monitoring report, there has been no change in the character of wastes discharged at those active connection points which are not specified in my permit.
C.	If your permit special conditions waive monitoring at inactive connection points, you are required to make the following certification: I certify, since the permit issue date, there has been no change in the status of connection points identified as inactive. Thes points remain inactive and no discharge occurred during the period covered by this report.
D.	If your permit special conditions authorize grab sample collection in lieu of composite sampling at any sample point(s), you are required to make the following certification:
	I certify the grab sample results in this report accurately represent our average daily discharge at sample point(s)
E	If your permit special conditions prohibit discharge of wastes which are subject to certain categorical pretreatment standards, you are required to make the following certification:
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	organics (TTO), I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewaters has occurred since filing the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to MSD.
PART	IV: GENERAL CERTIFICATION STATEMENTS
Initial th	e box for statement A if it applies to you. Everyone must complete the information under statement B and sign this report.
A.	Discharges at sample points subject only to MSD Ordinance limits can be exempted from TTO monitoring subject to the following certification: In lieu of monitoring for TTO at sample point(s)
B	DISCHARGE MONITORING REPORT CERTIFICATION
vho mar and belie and impi	under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system of to assure that qualified personnel property gather and evaluate the information submitted. Based on my inquiry of the person or persons mage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge of, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine risonment for knowing violations.
Γitle:	Hazardous Maferials Mas. Telephone: 314-362-6735
Signature	$2m^{-1}$

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St. Louis Testing Laboratories

2810 Clark Avenue • St. Louis, MO 63103-2574 • (314) 531-8080 • FAX (314) 531-8085

001,003,85,000 0.2 mg/

WASHINGTON UNIVERSITY

Campus Box 8229 660 South Euclid Ave. St. Louis, MO 63110 =C 11/3/20 October 11, 2000 Lab No. 00E-0910 Page 2 of 2

Attention: Mike Kershaw

REPORT OF TESTS

RESULTS: mg/L		/	/ <u>~</u> ~ P 0	100gi	/	
ANALYTE	001√	003√	004	005	MQL	METHOD NUMBER
Asbestos (Fibers/L)	ND_	ND	ND	ND	75490	100.1
Total Cyanide	<0.02	<0.02	<0.02	0.02	0.02	335.2
Arsenic	<0.05	<0.05	<0.05	<0.05	0.05	200.7
Chromium	<0.05	<0.05	<0.05	<0.05	0.05	200.7
Mercury	<0.0005	<0.0005	<0.0005	<0,0005	0.0005	245.1
Acrolein	(<0.10)	<0.10	<0.10	(<0.10	0.10	EPA 600 METHOD 624
Benzene	<0.005	<0.005	<0.005	<0.005	0.005	EPA 600 METHOD 624
Benzidine	<0.05	€0.05	<0.05	(<0.05)	0.05	EPA 600 METHOD 625
Carbon Tetrachloride	<0.005	<0.005	<0.005	<0.005	0.005	EPA 600 METHOD 624
Chloroform	<0.005	<0.005	<0.005	<0.005	0.005	EPA 600 METHOD 624
2.4-Dinitrophenol	(<0.05)	<0.05	<0.05	(<0.05)	0.05	EPA 600 METHOD 625
Methylene Chloride	<0.005	<0.005	<0.005	<0.005	0.005	EPA 600 METHOD 624
Phenol	<0.005	<0.005	<0.005	<0.005	0.005	EPA 600 METHOD 625
Toluene	<0.005	<0.005	<0.005	<0.005	0.005	EPA 600 METHOD 624

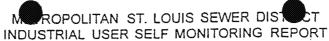
ND: Not Detected / MQL: Minimum Quantitative Limit

Identification of tested specimens provided by the client.

CSD/cmc

Carmen S. DeBlass, Director Environmental Testing





PLEASE READ THE INSTRUCTIONS BEFORE COMPLETING THIS REPORT

PART I: IDENTIFYING INFORMA			_					
Company Name: Washington Uk	wersit	5.	chool of	Me	Sizihe			waansanneeneessa
Permit No: 51122162-0	つ ひ							
Premise Address: 6605. Eucl	1.54	Lou	3 MO 6	3//	10			
Monitoring Period: □(JAN-MAR)		Ø(AF	R-JUNE)		□(JULY-SE	PT)	□(C	CT-DEC)
Samples Collected By: St. Louis	3 Testi	n L	aborafories		Manager and the second			·
Analyses Performed By: St. Lou								
PART II: ANALYTICAL RESULTS								
MSD SAMPLE POINT REFERENCE NUMBERS	· · · · · · · · · · · · · · · · · · ·		001		003		004	
DATES ON WHICH SAMPLES WERE COLLECTED		Grat	00 5/9/00 5/9-5/0 8:50 9:10	Grah	5/9/00	Con	6 5/8/00 0 5/8-5/9	# * # # # # # # # # # # # # # # # # # #
TIMES AT WHICH SAMPLES WERE COLLECTED	>	Ga	\$ 8:50 9.m p. 9:45/9:15	Grap	9:55 N 10:05/9:3091m	Grat	11:15 gm	
TIMES AT WITCH GARNESS WERE CONTROLLED		R	ECORD SAMPLE TYP	ES (G, C, M OR E) A	ND RES	SULTS BELOW	
PARAMETER	LIMIT		grab, C=composi					מדואט
FLOW		E	55850	E	3445	E	9865	GPD
BON (Bologral Oxygen Dergnd)		C	10	\mathcal{C}	900	<u>C</u>	10	ng/2
COO (Chenical Oxygen Denand)		C	50	<u>_</u>	360	C	17	mg/L
Total Suspended Solids		<u>C</u>	45	C	52	<u>C</u>	<5	mg/L
ott.	ACCUSED OF THE PROPERTY OF THE	G	8.64	G	8.36	G	8.14	Stal pHUnits
bil & Grease	**************************************	6	6	6		G	39	mg/L Co
Temperature.		<u>C</u>	17.4	2	31.5	2	25.5 20.05	ing/L
Silver		C	∠0.05	<u>_</u>	6.17	-	20.05	77/2

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You must complete and sign the certification statements on the reverse side.

JUL 2 4 2000

PART III: SPECIAL CERTIFICATION STATEMENTS

Q.A

Based on the special conditions contained in your discharge permit you may be required to certify one or more of the following. Please review your permit and PLACE YOUR INITIALS IN THE BOXES NEXT TO THOSE CERTIFICATIONS WHICH ARE APPLICABLE TO YOUR FACILITY. If your permit contains no Special Conditions, then none of the certifications in PART III apply to you. GO ON TO PART IV.

A.	If your permit special conditions waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification:
	I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sampling point(s)
8.	If your permit special conditions waive monitoring at active connection points which are not specified as sample points in your permit, you are required to make the following certification:
	I certify, since the last discharge monitoring report, there has been no change in the character of wastes discharged at those active connection points which are not specified in my permit.
C.	If your permit special conditions waive monitoring at inactive connection points, you are required to make the following certification: I certify, since the permit issue date, there has been no change in the status of connection points identified as inactive. These points remain inactive and no discharge occurred during the period covered by this report.
D.	If your permit special conditions authorize grab sample collection in lieu of composite sampling at any sample point(s), you are required to make the following certification:
	I certify the grab sample results in this report accurately represent our average daily discharge at sample point(s)
E.	If your permit special conditions prohibit discharge of wastes which are subject to certain categorical pretreatment standards, you are required to make the following certification:
	I certify, since the last discharge monitoring report, there has been no discharge of wastes which are subject to pretreatment standards in 40 CFR
F.	Discharges subject to Pharmaceutical Categorical Standards (40 CFR 439) can be exempted from limitations and monitoring for Total Cyanide at the Pharmaceutical sample point(s) subject to the following certification: I certify, since the last discharge monitoring report, cyanide has not been used or generated in any pharmaceutical manufacturing process subject to Categorical Standards in 40 CFR 439.
G.	Discharges Subject to Categorical Standards for Electroplating (40 CFR 413), Metal Finishing (40 CFR 433) or Electrical & Electronic Components (40 CFR 469) can be exempted from TTO monitoring only at the Electroplating, Metal Finishing or Electrical & Electronic Components sample point(s) subject to the following certification: Based on my inquiry of the person or persons directly responsible for managing compliance with the permit limitation for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewaters has occurred since filing the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to MSD.
PART	IV: GENERAL CERTIFICATION STATEMENTS
nitial t	he box for statement A if it applies to you. Everyone must complete the information under statement B and sign this report.
۹.	Discharges at sample points subject only to MSD Ordinance limits can be exempted from TTO monitoring subject to the following certification: In lieu of monitoring for TTO at sample point(s), I certify that to the best of my knowledge and belief, no toxic organics have been used at this premise or discharged into the wastewaters since filing of the last discharge monitoring report.
3	DISCHARGE MONITORING REPORT CERTIFICATION
resigne vho ma ind bel	under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a systemed to assure that qualified personnel property gather and evaluate the information submitted. Based on my inquiry of the person or persons anage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge lief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine prisonment for knowing violations.
rint or	type name of signing official. Michael T. Kershaw
ītle:	Hazardous Materials Division Manager Telephone: (314) 362-6735
lignatu	- Jack
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MSD 044084

PLEASE READ THE INSTRUCTIONS BEFORE COMPLETING THIS REPORT

PART I: IDENTIFYING INFORMA	TION		•					
Company Name: Washington Unit	versit 5	cheo	of Mediz	ine				***************************************
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Premise Address: 660 S.	Endid		St. Louis,	MO	63110	2		
Monitoring Period: □(JAN-MAR)	```	X I(AP	R-JUNE)		JULY-SE	PT)	(C	CT-DEC)
Wontdring Feriod. Light-windy	Tool		matories	_,		,	·	·
Samples Collected By: 51. Louis	7 010	Lar	dombrios					
Analyses Performed By: 51. Louis								
PART II: ANALYTICAL RESULTS	OF SELF	MONI	TORING			·		
MSD SAMPLE POINT REFERENCE NUMBERS	>	C	05					
DATES ON WHICH SAMPLES WERE COLLECTED	>	Grab	05 5/8 5/8-5/9 12:00 p.m. p 3:35 pm/8:48					
TIMES AT WHICH SAMPLES WERE COLLECTED	>	Grob	12:00p.m					
		RE	CORD SAMPLE TYP	ES (G, C,	M OR E) A	ND RES	SULTS BELOW	
PARAMETER	LIMIT	**	grab, C=composi					UNITS
		E	555180		and the Authorities and the Control of the Control			
P. Land Observation		1	34					
Riplogical Oxygan Denand		C	68					
Total Suspended Solids		2	20					
off		G	8.94	·				
Oil & Grease		G	45		,		***************************************	
Temperature		G	31.0					
Silver		C	40.05				,	
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You must complete and sign the certification statements on the reverse side.

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Environmental Compliance

PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify one or more of the following. Please review your permit and PLACE YOUR INITIALS IN THE BOXES NEXT TO THOSE CERTIFICATIONS WHICH ARE APPLICABLE TO YOUR FACILITY. If your permit contains no Special Conditions, then none of the certifications in PART III apply to you. GO ON TO PART IV.

Α.	If your permit special conditions waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification;
	I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sampling point(s)
8.	If your permit special conditions waive monitoring at active connection points which are not specified as sample points in your permit, you are required to make the following certification:
	I certify, since the last discharge monitoring report, there has been no change in the character of wastes discharged at those active connection points which are not specified in my permit.
C.	If your permit special conditions waive monitoring at inactive connection points, you are required to make the following certification: I certify, since the permit issue date, there has been no change in the status of connection points identified as inactive. These points remain inactive and no discharge occurred during the period covered by this report.
D.	If your permit special conditions authorize grab sample collection in lieu of composite sampling at any sample point(s), you are required to make the following certification:
	I certify the grab sample results in this report accurately represent our average daily discharge at sample point(s)
E.	If your permit special conditions prohibit discharge of wastes which are subject to certain categorical pretreatment standards, you are required to make the following certification:
	I certify, since the last discharge monitoring report, there has been no discharge of wastes which are subject to pretreatment standards in 40 CFR
F.	Discharges subject to Pharmaceutical Categorical Standards (40 CFR 439) can be exempted from limitations and monitoring for Total Cyanide at the Pharmaceutical sample point(s) subject to the following certification: I certify, since the last discharge monitoring report, cyanide has not been used or generated in any pharmaceutical manufacturing process subject to Categorical Standards in 40 CFR 439.
G.	Discharges Subject to Categorical Standards for Electroplating (40 CFR 413), Metal Finishing (40 CFR 433) or Electrical & Electronic Components (40 CFR 469) can be exempted from TTO monitoring only at the Electroplating, Metal Finishing or Electrical & Electronic Components sample point(s) subject to the following certification:
	Based on my inquiry of the person or persons directly responsible for managing compliance with the permit limitation for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewaters has occurred since filing the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to MSD.
PART	IV: GENERAL CERTIFICATION STATEMENTS
nitial th	e box for statement A if it applies to you. Everyone must complete the information under statement B and sign this report.
4 .	Discharges at sample points subject only to MSD Ordinance limits can be exempted from TTO monitoring subject to the following certification: In lieu of monitoring for TTO at sample point(s)
3	DISCHARGE MONITORING REPORT CERTIFICATION
lesigned vho mar ind belie	under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system of to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons that expected the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge of, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine risonment for knowing violations.
rint or I	type name of signing official Michael T. Keishaw
ītle:	Hazardous Materials Division Manager Telephone: (314) 362-6735
ignatur	e:_ Machel J. Kle Date: 7/7/00

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4-17-00 Certified Mail of 9 5 min Certified Mail 004 787

METROPOLITAN ST. LOUIS SEWER DISTRICT INDUSTRIAL USER SELF MONITORING REPORT

PLEASE READ THE INSTRUCTIONS BEFORE COMPLETING THIS REPORT

PART I: DENTIFYING INFORMA Company Name: Washing fon Unit	TION		chool of		ladi da		.:	de San San San San San San San San San San San San San San
Company Name: Washington Williams S1122162	,	-	CHOU ST		evicipe.			
Premise Address: 660 S. Eu	i 1	4	Louis:	1	10 63	110	•	1
Monitoring Period:	- /		R-JUNE)		□(JULY-SE			CT-DEC)
Samples Collected By: 54. Louis	Testing	1	borg taries					- Control of the Control of the Con
Analyses Performed By: St. Louis								
PART II: ANALYTICAL RESULTS	OF SELF	MON	ITORING					
MSD SAMPLE POINT REFERENCE NUMBERS	>>	0	21.	C	003	C	04	
DATES ON WHICH SAMPLES WERE COLLECTED	>	2/2	,2/3-4*	2/2	,2/3-4	2/2	, 4b-3	
TIMES AT WHICH SAMPLES WERE COLLECTED	>	12	p.m., 11:45a.m.					
PARAMETER	LIMIT	1	ECORD SAMPLE TY					UNITS
FLOW		E	55850	E	3445	E	9865	GPD
pH.		Ci	896	<u>C</u>	- 9.18	C	8,62	pH units
Temperature		C	15.0	<u>C</u>	19.8	2	16.2	C
Biological Oxygen lemand		<u>C</u>	25	6	127_	1	44_	mg/4
Chemical Oxygen Deman		C	. 73		240	C	125	19/L
Total Suspended Solids		C	32	5	61	15		12/1
Oil & Greage		<u>C</u>	< 5	C	<u> </u>		<u> </u>	mg/L
Silver		<u></u>	20.05		0.16	 C 	<0.05	mg/L
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You must complete and sign the certification statements on the reverse side.

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Environmental Compliance

PART III: SPECIAL CERTIFICATION STATEMENTS

permit a	on the special conditions contained in your discharge permit you may be required to certify one or more of the following. Please review your and PLACE YOUR INITIALS IN THE BOXES NEXT TO THOSE CERTIFICATIONS WHICH ARE APPLICABLE TO YOUR FACILITY. If your contains no Special Conditions, then none of the certifications in PART III apply to you. GO ON TO PART IV.
A.	If your permit special conditions waive monitoring at any sample point(s) specified in your permit, you are required to make the following
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F. "	Discharges subject to Pharmaceutical Categorical Standards (40 CFR 439) can be exempted from limitations and monitoring for Total Cyanide at the Pharmaceutical sample point(s) subject to the following certification:
	I certify, since the last discharge monitoring report, cyanide has not been used or generated in any pharmaceutical manufacturing process subject to Categorical Standards in 40 CFR 439.
G.	Discharges Subject to Categorical Standards for Electroplating (40 CFR 413), Metal Finishing (40 CFR 433) or Electrical & Electronic Components (40 CFR 469) can be exempted from TTO monitoring only at the Electroplating, Metal Finishing or Electrical & Electronic Components sample point(s) subject to the following certification: Based on my inquiry of the person or persons directly responsible for managing compliance with the permit limitation for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewaters has occurred since filing the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to MSD.
PART I	V: GENERAL CERTIFICATION-STATEMENTS
nitial the	box for statement A if it applies to you. Everyone must complete the information under statement B and sign this report.
۹.	Discharges at sample points subject only to MSD Ordinance limits can be exempted from TTO monitoring subject to the following certification: In lieu of monitoring for TTO at sample point(s), I certify that to the best of my knowledge and belief, no toxic organics have been used at this premise or discharged into the wastewaters since filling of the last discharge monitoring report.
3	DISCHARGE MONITORING REPORT CERTIFICATION
resigned who mana and belief, and impris	nder penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons age the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine somment for knowing violations.
rnnt or ty	Herardone Materials Manarel Telephone 344-362 (736)
ignature:	1997 1 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Date: 4/10/00

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SWF 10/93

METROPOLITAN ST. LOUIS SEWER DISTRICT INDUSTRIAL USER SELF MONITORING REPORT

PLEASE READ THE INSTRUCTIONS BEFORE COMPLETING THIS REPORT

PART I: IDENTIFYING INFORMAT	TION ,	-, -	.,		•			
Company Name: Washington Unit	Versito	Sch	col of M	redic	the	3312		
Permit No. 51122162 -	60	5.4				<u>.</u>	Service of the servic	
Premise Address: 660 5	Eachid		St. Lour	5,	40			*
Monitoring Period: ☒(JAN-MAR)	:	, □(AF	R-JUNE)	,	□(JULY-SE	PT)	□(O	CT-DEC)
Samples Collected By: Sf. Louis			, ,	·e5				·
Analyses Performed By: St. Louis								
PART II: ANALYTICAL RESULTS		,						
				ì		T		
MSD SAMPLE POINT REFERENCE NUMBERS	>		05	 		_		
DATES ON WHICH SAMPLES WERE COLLECTED			1,2/2-3			<u> </u>		1 (44)
TIMES AT WHICH SAMPLES WERE COLLECTED	>	11	35a.n., 11:45ga		***************************************	<u> </u>		
24245772	LIMIT	II ·	ECORD SAMPLE TYP grab, C=composi		•		1	UNITS
PARAMETER .	LIMIT			П	-measured row,	T		
FLOW		E	555150				· ·	GPD
PH ,	elenenanh-tarippo-m-reconscionation	C	9.84	 	-			CO
Temperature	<u> 1 </u>	5	27.8 25			:	To approximate the first of the	mall
Biological Oxygen Deman				31,				1/2
Chemical Oxygen Denand Total Suspended Solids	onnonno dibonistation proprogrammento de la constantina della cons	7	27					49/4
Gil & Grease		C	<u> </u>		according west procession and the second			ns/L
Silver	offendamine Add Add Comment Comment	C	<0.05		<u></u>			mg/L
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			***************************************				T.	:D
							APR 14	2000

You must complete and sign the certification statements on the reverse side.

Environmental Compliance

PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify one or more of the following. Please review your permit and PLACE YOUR INITIALS IN THE BOXES NEXT TO THOSE CERTIFICATIONS WHICH ARE APPLICABLE TO YOUR FACILITY. If your permit contains no Special Conditions, then none of the certifications in PART III apply to you. GO ON TO PART IV.

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PART	IV: GENERAL CERTIFICATION STATEMENTS
Initial the	e box for statement A if it applies to you. Everyone must complete the information under statement B and sign this report.
A.	Discharges at sample points subject only to MSD Ordinance limits can be exempted from TTO monitoring subject to the following certification: In lieu of monitoring for TTO at sample point(s)
8	DISCHARGE MONITORING REPORT CERTIFICATION
designed who mar and belie and impi	under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system of to assure that qualified personnel property gather and evaluate the information submitted. Based on my inquiry of the person or persons mage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge of, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine risonment for knowing violations.
Print or i Title:	type name of signing official: Michael 7- Kershau
Signatur	e: M2 1 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2
- 3	Date: 4/10/00

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Metropolitan St. Louis Seer District

Department of Environmental Compliance 10 East Grand Avenue St. Louis, MO 63147-2913 (314) 436-8710 FAX (314) 436-8753

February 8, 2000

Daniel Szatkowski
WASHINGTON UNIVERSITY SCHOOL OF MEDICINE
660 S. Euclid Ave.
St. Louis, MO 63110

Re: Barnes-Jewish Hospital-North Campus Barnes-Jewish Hospital-South Campus

St. Louis Children's Hospital

Washington University Hilltop Campus

Washington University Medical School (East of Euclid) Washington University Medical School (West of Euclid)

Dear Mr. Szatkowski:

As you may be aware, the Metropolitan St. Louis Sewer District prohibits the discharge of radioactive material to the sewer system, except those discharges specifically approved by the District. The facilities referenced above have such approvals. As part of the approval, you are required to complete and submit Industrial User Radioactive Materials Discharge Reports each quarter.

We have recently revised the Discharge Report. Under Part III.A of the report, the Certification of Compliance with State and Federal Regulations has been modified so that now only a single certification is required. The previous version of the report required two separate certifications, which resulted in some companies failing to make the correct certification.

A copy of the revised report is enclosed for your use. Please begin using the revised report immediately. You should discard all copies of the previous version.

If you have any questions, please contact me at 314-436-8717.

Sincerely,

METROPOLITAN ST. LOUIS SEWER DISTRICT

Douglas M. Mendoza, P.E. Industrial Waste Engineer

Enclosure - revised Radioactive Discharge Report

pc Permits Unit

METROPOLITAN ST. LOUIS SEWER DISTRICT INDUSTRIAL USER RADIOACTIVE MATERIALS DISCHARGE REPORT

PART I: IDENTIFYING INFORMATION Company Name: ____ Permit No: Premise Address: Reporting Period: \(\subseteq (JAN-MAR) \) \(\subseteq (APR-JUNE) \) \(\subseteq (JULY-SEPT) \) □(OCT-DEC) PART II: RECORD OF DISPOSAL OF RADIOACTIVE MATERIALS TO THE SEWER SYSTEM ACTIVITY DISCHARGED (millicuries) RADIONUCLIDE TOTAL ACTIVITY DISCHARGED: PART III: CERTIFICATION STATEMENTS Place your initials in the box under item A. Everyone must complete the information under items A & B and sign this report. CERTIFICATION OF COMPLIANCE WITH STATE AND FEDERAL REGULATIONS Α. I certify that to the best of my knowledge & belief, all requirements of 10 CFR Part 20.2003 and 19 CSR Part 20-10.090 governing disposal by release into sanitary sewage for material regulated by the Nuclear Regulatory Commission and the Missouri Department of Health, respectively, have been met for the period covered by this report. RADIOACTIVE MATERIALS DISCHARGE REPORT CERTIFICATION В. I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. possibility of fine and imprisonment for knowing violations. Print/type name of signing official: _____ Telephone: Title:___ _____ Date: _____ Signature:



School of Medicine

Mag .

ENVIRONMENTAL HEALTH & SAFETY

February 3, 2000

CERTIFIED MAIL

RE: Notice of Permit Violations

Department of Environmental Compliance Metropolitan St. Louis Sewer District 10 East Grand Avenue St. Louis, MO 63147-2913

To Whom It May Concern:

On January 13, 2000, Washington University School of Medicine received a correspondence from Mr. Fabian T. Grabski of the Metropolitan St. Louis Sewer District (MSD). The correspondence was a Notice of Permit Violations (NOPV) in reference to discharge permit number 51122162-00. In response to the NOPV, Mr. Grabski requested that Washington University School of Medicine (WUSM) submit a report of corrective actions taken by WUSM to correct each violation cited as Violations of Discharge Limits in the NOPV. In addition, he requested submission of the results from re-sampling of sample points 003 and 004 for silver and oil & grease respectively.

CORECTIVE ACTIONS

The wastewater from sample point 003 exceeded the MSD limit for silver. The most probable source for silver in the area served by sample point 003 is silver contaminated photographic fixer solution. In order to correct the potential problem, WUSM personnel visited each laboratory in the area that developed film or x-rays of any type. At each of these sites, WUSM personnel explained to at least one contact person, the proper methods of photographic chemical waste management and the consequences of improper disposal via sanitary sewer. The location of each developing area was documented along with the type of equipment, waste disposal method, contact person, and telephone number. This data is available for submission to MSD upon request.

The wastewater from sample point 004 exceeded the MSD limit for oil & grease. There is only one WUSM building that produces the effluent released at this sample point. The supervisors for the employees in the building were questioned about disposal of any possible oil or grease via sanitary sewer. Upon investigation into this matter, no evidence or record of

Washington University School of Medicine at Washington University Medical Center Campus Box 8229, 660 South Euclid Avenue St. Louis, Missouri 63110 (314) 362-6816 FAX: (314) 362-1995 www.ehs.wustl.edu esafety@msnotes.wustl.edu



Page 2
 February 3, 2000

improper release was found. In addition, each employee that works in the building was notified of the results of the sampling and trained on MSD requirements. Finally, when the resampling was being performed, I was present to ensure that the effluent from the building was properly sampled. It is possible the previous sample was taken from the main line as opposed to the line that flowed from the building.

RE-SAMPLING

As required by MSD, sample point 003 was re-sampled using a 24-hour composite and analyzed for silver concentration. In addition, sample point 004 was re-sampled using a grab and analyzed for oil & grease. See the attached copy of analysis for details.

RUSULTS

Sample point 003 was found to have silver levels at a concentration of 0.26 mg/l.

Sample point 004 was found to have oil & grease levels at a concentration of 102 mg/l.

CONCLUSIONS

The results of the re-sampling show that the sample points in question are currently in compliance with MSD ordinance 8472 discharge limits.

WUSM is extremely interested in both staying in compliance and being a leader in environmental stewardship. We will continue to make every effort to maintain compliance and to increase employee awareness of environmental issues. In addition, we will continue to investigate the previous violations with the intention of avoiding future violations.

If you have any questions or need further information please contact me at (314) 362-6735.

Sincerely.

Michael T. Kershaw

Enc: 1

RECEIVED FEB - 7 2000



WASHINGTON UNIVERSITY

Campus Box 8229 660 South Euclid Ave. St. Louis, MO 63110

Attention: Mike Kershaw

January 31, 2000 Lab No. 00E-0090 Invoice No. 8076 P.O. No. 74262H Page 1 of 1

REPORT OF TESTS

SAMPLE ID: WASTE WATER, PT. 004 GRAB, 1-27-00, 9:15 A.M.

WASTE WATER, PT. 003 COMPOSITE, 1/27-28/00, 9:45 A.M.

RESULTS: mg/L

ANALYTE	004	003	MQL	METHOD NUMBER
Oil & Grease	102		5	1664
Silver		0.26	0.05	200.7

MQL: Minimum Quantitative Limit

CSD/mrm

Eunicoeu ut i Coz el s.

AN OFFICIAL COPY OF TEST REPORT WILL BE PROVIDED BY THIS LABORATORY ON REQUEST. DO NOT REPRODUCE. NOT OFFICIAL WITHOUT THE RAISED SEAL OF ST. LOUIS TESTING LABORATORIES, INC. SEE REVERSE FOR CONDITIONS.



Metropolitan St. Louis Sewer District

Department of Environmental Compliance 10 East Grand Avenue St. Louis, MO 63147-2913 (314) 436-8710 FAX (314) 436-8753

January 12, 2000

Michael T. Kershaw Hazardous Materials Manager WASHINGTON UNIVERSITY MEDICAL SCHOOL 660 S. Euclid Avenue Campus Box 8229 St. Louis, MO 63110

RE: NOTICE OF PERMIT VIOLATIONS

Discharge Permit No:

51122162-00

For premise at:

660 S. Euclid Avenue

Dear Mr. Kershaw:

We have reviewed the fourth quarter 1999 self-monitoring report you recently submitted to the District under the terms of the above referenced permit. The following violations of permit limitations, terms or conditions were identified:

VIOLATIONS OF DISCHARGE LIMITATIONS:

	SAMP	SAMPLE	•	MSD ORD.	LIMIT	
DATE TI	ME PT	TYPE	PARAMETER	8472 LIMIT	TYPE	VALUE FOUND
12-15-99 13	30 003 2	4-hr comp	Silver (T)	0.5 mg/l	DA	0.68 mg/1**
12-15-99 10-	45 004	Grab	Oil & Grease (T)	200 mg/l	IN	240 mg/l

(T) = Total substance

mg/l = milligrams per liter

DA = Daily Average
IN = Instantaneous

REQUIRED ACTION/RESPONSE:

Pursuant to Section 403.12 (g) (2) of the federal pretreatment regulations and Article VIII, Section 4.C of MSD Ordinance 8472, you are required to resample the discharge and to submit the results of analyses to the District, within thirty (30) days of your first becoming aware of the violation. Resampling must be performed at sampling point 003 for Silver and at sampling point 004 for Oil & Grease

Submit a report of corrective actions, which you have initiated to ensure compliance with the permitted discharge limitations for Silver and Oil & Grease.

Refer to the enclosure for information on potential enforcement actions should noncompliance continue. The enclosure also explains the meaning of any asterisks which appear in the Value Reported column above. You should consider the percentages applicable to Significant Noncompliance when planning for additional sampling.

1/14/00 gane Ma Kershaw an explanation of TRC. Will send letter + resample. Page 2 Washington University Medical School January 12, 2000

Please submit your response on the above items by February 7, 2000.

If you have any questions, please contact me at 436-8756.

Sincerely,

METROPOLITAN ST. LOUIS SEWER DISTRICT

Fabian T. Grabski Assistant Engineer

ldl

Enclosure

pc: Suspense file

ME OPOLITAN ST. LOUIS SEWER DISTRIBUTED INDUSTRIAL USER SELF MONITORING REPORT

PLEASE READ THE INSTRUCTIONS BEFORE COMPLETING THIS REPORT

Company Name: Washington Uniwasity School of Medicine Company Name: Washington Uniwasity School of Medicine Premise Address: 600 S. Euclid Pag. 8949, St. Lauis, 100 63110 Admitizing Period: (()(AN-MAR)) (()(APR-JUNE) (()(JULY-SEPT)) (()(OCT-DEC) Samples Collected By: St. Lauis Testing Laboratorics ART II: ANALYTICAL RESULTS OF SELF MONITORING MSD SAMPLE POINT REFERENCE NUMBERS > 001 003 004 11/20/19	PART I: IDENTIFYING INFORMA	11014	1.35	p = 1 = 1				7
Permit No: \$\frac{112}{212} \frac{10}{20} \frac{1}{20} \f	Company Name: Washington Un	iversity	Sch	ool of Ma	Police	ihe	* 18	. <u>2</u> 1\$
Premise Address: GLO S. Euclid Bx 8009, St. Louis, NO 63110	Permit No: 5/124/62-C	<i></i>						
Monitoring Period:	Premise Address: 660 S. Eu	iclid B	x 8d	29, 5h.L.	oui s	5, MO 63,	110	
ANALYTICAL RESULTS OF SELF MONITORING MSD SAMPLE POINT REFERENCE NUMBERS -> COI	Monitoring Period: □(JAN-MAR)		□(AF	R-JUNE)		.□(JULY-SE	PT) 💆(C	OCT-DEC)
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Biological Oxygen Demand C 19 C 46 C 29 m3/L Chemical Oxygen Demand C 65 C 126 C 106 m9/L Total Suspended Solids C 27 C 10 C 18 m3/L OH **(C 8.34 ** C 8.51 C 7.78 545 pm/s) Dil & Greage C 18.3 C 25.1 C 21.1 C° Silver C 0.03 C 0.68 C <0.02 m3/L	PARAMETER	LIMIT	G=	grab, C=composi	te, M	i=measured flow,	, E=estimated flow	UNITS
Biological Oxygen Demand C 19 C 46 C 39 m3/L Chemical Oxygen Demand C 65 C 126 C 106 m9/L Total Suspended Solids C 8.34 C 8.51 C 7.8 54 m1/L Oil & Grease C 50 C 55.1 C 240 m5/L Temperature C 18.3 C 25.1 C 21.1 C° Silver C 0.03 C 0.68 C 50.02 m3/L	FLOW		E	558 <i>50</i>	E	3445	E 9865	GPO
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You must complete and sign the certification statements on the reverse side.

WERE NOT UMPICITES BUT PATHER GRABS.

PURSUBINT TO 1/11/00 CALL of MR. KERSHAW

* ALL SAMPLES ARE 24 HOUR COMP, However, PH, OlG, & TEMP Environmental Compliance

MSD 044098

PART III: SPECIAL CERTIFICATION STATEMENTS

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Based on the special conditions contained in your discharge permit you may be required to certify one or more of the following.	Please review your
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permit and PLACE YOUR INITIALS IN THE BOXES NEXT TO THOSE CERTIFICATIONS WHICH ARE APPLICABLE TO YOUR	O FACILITY ISSUE
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permit contains no Special Conditions, then none of the certifications in PART III apply to you. GO ON TO PART IV.	•

A.	If your permit special conditions waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification:
	I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sampling point(s)
8.	If your permit special conditions waive monitoring at active connection points which are not specified as sample points in your permit, you are required to make the following certification:
	I certify, since the last discharge monitoring report, there has been no change in the character of wastes discharged at those active connection points which are not specified in my permit.
C.	If your permit special conditions waive monitoring at inactive connection points, you are required to make the following certification: I certify, since the permit issue date, there has been no change in the status of connection points identified as inactive. These points remain inactive and no discharge occurred during the period covered by this report.
D.	If your permit special conditions authorize grab sample collection in lieu of composite sampling at any sample point(s), you are required to make the following certification:
	I certify the grab sample results in this report accurately represent our average daily discharge at sample point(s)
E.	If your permit special conditions prohibit discharge of wastes which are subject to certain categorical pretreatment standards, you are required to make the following certification:
	I certify, since the last discharge monitoring report, there has been no discharge of wastes which are subject to pretreatment standards in 40 CFR
F.	Discharges subject to Pharmaceutical Categorical Standards (40 CFR 439) can be exempted from limitations and monitoring for Total Cyanide at the Pharmaceutical sample point(s) subject to the following certification:
•	I certify, since the last discharge monitoring report, cyanide has not been used or generated in any pharmaceutical manufacturing process subject to Categorical Standards in 40 CFR 439.
	Discharges Subject to Categorical Standards for Electroplating (40 CFR 413), Metal Finishing (40 CFR 433) or Electrical & Electronic Components (40 CFR 469) can be exempted from TTO monitoring only at the Electroplating, Metal Finishing or Electrical & Electronic Components sample point(s) subject to the following certification: Based on my inquiry of the person or persons directly responsible for managing compliance with the permit limitation for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewaters has occurred since filling the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to MSD.
PART	IV: GENERAL CERTIFICATION STATEMENTS
Initial th	e box for statement A if it applies to you. Everyone must complete the information under statement B and sign this report.
Α.	Discharges at sample points subject only to MSD Ordinance limits can be exempted from TTO monitoring subject to the following certification: In lieu of monitoring for TTO at sample point(s), I certify that to the best of my knowledge and belief, no toxic organics have been used at this premise or discharged into the wastewaters since filing of the last discharge monitoring report.
8.	DISCHARGE MONITORING REPORT CERTIFICATION
designe who mai and beli	under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system d to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons nage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge ef, true, accurate, and complete: I am aware that there are significant penalties for submitting false information, including the possibility of fine resonment for knowing violations.
Print or	type name of signing official: Michael T. Kershaw
Title:	Hazardous Materials Manager Telephone: (314) 362-6735
Signatur	e:
Ces	tified P074 2012908 SMF 1093

METROPOLITAN ST. LOUIS SEWER DISTRICT INDUSTRIAL USER SELF MONITORING REPORT

PLEASE READ THE INSTRUCTIONS BEFORE COMPLETING THIS REPORT

PLEASE READ THE							•	nathar in
PART I: IDENTIFYING INFORMAT	TION .			· • '	انها المحادي ما المحروج	 (<u></u>		
Company Name: Washington U	riversity	<u>5</u>	chool of	ned.	cihe		A	
Permit No: コルネスパのケー(
Premise Address: 660 S. E	Fuclid,	, Bé	x 8229,	5/	. Louis,	20	63110	· ·
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You must complete and sign the certification statements on the reverse side.

JAN 1 1 2000

Environmental Compliance

PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify one or more of the following. Please review your. permit and PLACE YOUR INITIALS IN THE BOXES NEXT TO THOSE CERTIFICATIONS WHICH ARE APPLICABLE TO YOUR FACILITY. If your permit contains no Special Conditions, then none of the certifications in PART III apply to you. GO ON TO PART IV.

A.	If your permit special conditions waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification:
	I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sampling point(s)
В.	If your permit special conditions waive monitoring at active connection points which are not specified as sample points in your permit, you are required to make the following certification:
	I certify, since the last discharge monitoring report, there has been no change in the character of wastes discharged at those active connection points which are not specified in my permit.
C.	If your permit special conditions waive monitoring at inactive connection points, you are required to make the following certification: I certify, since the permit issue date, there has been no change in the status of connection points identified as inactive. These points remain inactive and no discharge occurred during the period covered by this report.
D.	If your permit special conditions authorize grab sample collection in lieu of composite sampling at any sample point(s), you are required to make the following certification:
	I certify the grab sample results in this report accurately represent our average daily discharge at sample point(s)
E.	If your permit special conditions prohibit discharge of wastes which are subject to certain categorical pretreatment standards, you are required to make the following certification:
	I certify, since the last discharge monitoring report, there has been no discharge of wastes which are subject to pretreatment standards in 40 CFR
F.	Discharges subject to Pharmaceutical Categorical Standards (40 CFR 439) can be exempted from limitations and monitoring for Total Cyanide at the Pharmaceutical sample point(s) subject to the following certification:
	I certify, since the last discharge monitoring report, cyanide has not been used or generated in any pharmaceutical manufacturing process subject to Categorical Standards in 40 CFR 439.
G.	Discharges Subject to Categorical Standards for Electroplating (40 CFR 413), Metal Finishing (40 CFR 433) or Electrical & Electronic Components (40 CFR 469) can be exempted from TTO monitoring only at the Electroplating, Metal Finishing or Electrical & Electronic Components sample point(s) subject to the following certification: Based on my inquiry of the person or persons directly responsible for managing compliance with the permit limitation for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewaters has occurred since filing the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to MSD.
PART	IV: GENERAL CERTIFICATION STATEMENTS
Initial th	e box for statement A if it applies to you. Everyone must complete the information under statement B and sign this report.
A,	Discharges at sample points subject only to MSD Ordinance limits can be exempted from TTO monitoring subject to the following certification: In lieu of monitoring for TTO at sample point(s)
В.	DISCHARGE MONITORING REPORT CERTIFICATION
who mar and belie	under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system d to assure that qualified personnel property gather and evaluate the information submitted. Based on my inquiry of the person or persons nage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge ef, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine risonment for knowing violations.
	type name of signing official: Michael T. Kershaw
Fitle:	Hazardous Malerials Manager Telephone: (314) 362-6735
Signatur	
	9ar (femil) 2 2 SMF 1093

INDUSTRIAL USER RADIOACTIVE MATERIALS DISCHARGE REPORT PART I: IDENTIFYING IN ORMATION Medicine - bldgs east of Euclid Company Name: Washington University St. Louis MO Premise Address: Reporting Period: O (JAN-MAR) O(APR-JUNE) O (JULY-SEPT) PART II: RECORD OF DISPOSAL OF RADIOACTIVE MATERIALS TO THE SEWER SYSTEM RADIONUCLIDE ACTIVITY DISCHARGED (millicuries) 1999 Environmental Camphanee 86,00C TOTAL ACTIVITY DISCHARGED: m C: PART III: CERTIFICATION STATEMENTS Place your initials in the boxes under item A which apply to you. Everyone must complete the information under item B and sign this report. CERTIFICATION OF COMPLIANCE WITH STATE AND FEDERAL REGULATIONS I certify that to the best of my knowledge and belief, all requirements of 19 CSR Part 20-10.090 governing disposal by release into sanitary sewage for material regulated by the Missouri Department of Health have been met for the period covered by this report. DJS I certify that to the best of my knowledge and belief, all requirements of 10 CFR Part 20.2003 governing disposal by release into sanitary sewage for material regulated by the Nuclear Regulatory Commission have been met for the period covered by this report. $\mathcal{O}_{\mathcal{V}}$ В. RADIOACTIVE MATERIALS DISCHARGE REPORT CERTIFICATION I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. information, including the possibility of fine and imprisonment for knowing violations. Print or type name of signing official: Daniel Radiation Safety Officer Telephone: (3/4)

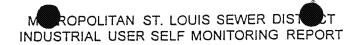
Date:

radrpt 6/94

PART I: IDENTIFYING I ORMATION Company Name: Washington Universit of Medicine - bldgs west Premise Address: 660 Reporting Period: O (JAN-MAR) O (APR-JUNE) 図(JULY-SEPT) O(OCT-DEC) PART II: RECORD OF DISPOSAL OF RADIOACTIVE MATERIALS TO THE SEWER SYSTEM RADIONUCLIDE ACTIVITY DISCHARGED (millicuries) Environmental Compilance TOTAL ACTIVITY DISCHARGED: PART III: CERTIFICATION STATEMENTS Place your initials in the boxes under item A which apply to you. Everyone must complete the information under item B and sign this report. CERTIFICATION OF COMPLIANCE WITH STATE AND FEDERAL REGULATIONS I certify that to the best of my knowledge and belief, all requirements of 19 CSR Part 20-10.090 governing disposal by release into sanitary sewage for material regulated by the Missouri Department of Health have been met for the period covered by this report. I certify that to the best of my knowledge and belief, all requirements of 10 CFR Part 20.2003 governing disposal by release into sanitary sewage for material regulated by the Nuclear Regulatory Commission have been met for the period covered by this report. В. RADIOACTIVE MATERIALS DISCHARGE REPORT CERTIFICATION I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations. information, including the possibility of fine and imprisonment for knowing violations. Print or type name of signing official: Lanie/ Safety Telephone: Date:

INDUSTRIAL USER RADIOACTIVE MATERIALS DISCHARGE REPORT

radrot 6/94



PLEASE READ THE INSTRUCTIONS BEFORE COMPLETING THIS REPORT

PART I: IDENTIFYING INFORMA	TION							
Company Name: Washington Univ	versity s	scho	of of Medi	cihe	·			nd States of States and
Permit No: 5/122/62	•		de Marian de la companya de la comp					
Premise Address: 660 S. Eu		54.	Louis M	0.	63110		onin ma	
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Analyses Performed By: 54. Louis			,					94.00 . Track
PART II: ANALYTICAL RESULTS								
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		E	55850		3,445	E		G-PD
PH FLOW		G	7.03	\overline{C}		C	hannan dan kapanan	Standards Off units
Temperature		G	29.6	2	31.7	C	27.1	Co
Biological Origen Demand		C	43	C	54	C	81	mg/L
Chemical Oxygen Demand		C	97	C	120	C	256	mg/L
Total Suspended Solids		C	33	c	19	<u>C</u>	42	19/4
Oil & Grease		G	7	C	7	C	24	mg/L
Silver		C	20.05	<u>C</u>	0.07	C	<0.05	mg/L
Total Toxic Organics		<u> C</u>	(O (sa(D))	C	(0)(u)	C_	0.153	119/2
		-	7				76	mg/L
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							Carton E. M. N. Brown	
	·	<u> </u>		<u></u>	, ,	RE	CFIVE	
You must complete and sign the certific	ation state	ement	s on the rever	se si	de.	0	CT 1 9 1999) .
You must complete and sign the certific	SE	EA	π.		r	nuiro	nm nt l complia	1088
TT904 = 20.17 molf	(H)	OTA	T. 1 FG 10	1191	99	11 V I I U I	in ne a venimin	

SEE ATT. DATA. 1 FG 10/19/99

MSD 044104

PART III:

SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify one or more of the following. Please review your permit and PLACE YOUR INITIALS IN THE BOXES NEXT TO THOSE CERTIFICATIONS WHICH ARE APPLICABLE TO YOUR FACILITY. If your permit contains no Special Conditions, then none of the certifications in PART III apply to you. GO ON TO PART IV.

A.	If your permit special conditions waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification:
	I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sampling point(s)
8.	If your permit special conditions waive monitoring at active connection points which are not specified as sample points in your permit, you are required to make the following certification:
	I certify, since the last discharge monitoring report, there has been no change in the character of wastes discharged at those active connection points which are not specified in my permit.
C.	If your permit special conditions waive monitoring at inactive connection points, you are required to make the following certification: I certify, since the permit issue date, there has been no change in the status of connection points identified as inactive. Thes points remain inactive and no discharge occurred during the period covered by this report.
D.	If your permit special conditions authorize grab sample collection in lieu of composite sampling at any sample point(s), you are required to make the following certification:
	I certify the grab sample results in this report accurately represent our average daily discharge at sample point(s)
E.	If your permit special conditions prohibit discharge of wastes which are subject to certain categorical pretreatment standards, you are required to make the following certification:
	I certify, since the last discharge monitoring report, there has been no discharge of wastes which are subject to pretreatmen standards in 40 CFR
F	Discharges subject to Pharmaceutical Categorical Standards (40 CFR 439) can be exempted from limitations and monitoring for Total Cyanide at the Pharmaceutical sample point(s) subject to the following certification:
	I certify, since the last discharge monitoring report, cyanide has not been used or generated in any pharmaceutical manufacturing process subject to Categorical Standards in 40 CFR 439.
G.	Discharges Subject to Categorical Standards for Electroplating (40 CFR 413), Metal Finishing (40 CFR 433) or Electrical & Electronic Components (40 CFR 469) can be exempted from TTO monitoring only at the Electroplating, Metal Finishing or Electrical & Electronic Components sample point(s) subject to the following certification: Based on my inquiry of the person or persons directly responsible for managing compliance with the permit limitation for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewaters has occurred since filing the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to MSD.
PART	IV: GENERAL CERTIFICATION STATEMENTS
Initial the	e box for statement A if it applies to you. Everyone must complete the information under statement B and sign this report.
A.	Discharges at sample points subject only to MSD Ordinance limits can be exempted from TTO monitoring subject to the following certification: In lieu of monitoring for TTO at sample point(s), I certify that to the best of my knowledge and belief, no toxic organics have been used at this premise or discharged into the wastewaters since filing of the last discharge monitoring report.
8.	DISCHARGE MONITORING REPORT CERTIFICATION
designed who mar and belie	under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system of to assure that qualified personnel property gather and evaluate the information submitted. Based on my inquiry of the person or persons mage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge of, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine risonment for knowing violations.
Print or 1	type name of signing official: Michael T. Kershaw
Title:	Hazardous Materials Division Manager Telephone: 314/362-6735
Signatur	e: Michael J. Kente Date: 10/11/99
0	f^{2} f^{3} f^{4} f^{2} f^{3} f^{4} f^{4

MSD 044105

PLEASE READ THE INSTRUCTIONS BEFORE COMPLETING THIS REPORT

PART I: IDENTIFYING INFORMATION			
Company Name: Washington University	chool of Medi	icihe	and the state of t
Permit No: 5/122/62-00			
Premise Address: 660 S. Euclid,	St. Louis M	0. 63110	
Monitoring Period: □(JAN-MAR)	□(APR-JUNE)	滋 (JULY-SEPT)	(OCT-DEC)
Samples Collected By: 5+. Louis Testing	Laboratories		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Analyses Performed By:			***************************************
PART II: ANALYTICAL RESULTS OF SELF			
MSD SAMPLE POINT REFERENCE NUMBERS>	005		
DATES ON WHICH SAMPLES WERE COLLECTED>	9/15-9/16/79		
TIMES AT WHICH SAMPLES WERE COLLECTED>	6:35 q.m.		
-	RECORD SAMPLE TY		
PARAMETER LIMIT	G=grab, C=composi	te, M=measured flow, E=estimated flow	UNITS
FLOW	E 555,150		GAD Standad
ρΗ	G 7.42		pH units
Temperature	G 31.2		C°,
Biological Oxygen Demand	C 10		mg/L
Chemical Oxygen Demand	C 60		mg/L
Total Suspended Solid	C 8	<u> </u>	mg/L
Oil & Greace			mg/L mg/L
Silver Danies	1		ug/L
Total Toxic Organics	C (0.0367)		mg/k
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	, *C1.		
	,	RECT	
You must complete and sign the certification state	ments on the rever	se side. OCT 19	1999
TTO=20.17 molf FG 10/19/90	1	Engineerated for	anneilaide
· ~ 10/10/90	1	Environmental G	Juihiialide

PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify one or more of the following. Please review your permit and PLACE YOUR INITIALS IN THE BOXES NEXT TO THOSE CERTIFICATIONS WHICH ARE APPLICABLE TO YOUR FACILITY. If your permit contains no Special Conditions, then none of the certifications in PART III apply to you. GO ON TO PART IV.

A.	If your permit special conditions waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification:
	I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sampling point(s)
· B .	If your permit special conditions waive monitoring at active connection points which are not specified as sample points in your permit, you are required to make the following certification:
	I certify, since the last discharge monitoring report, there has been no change in the character of wastes discharged at those active connection points which are not specified in my permit.
C.	If your permit special conditions waive monitoring at inactive connection points, you are required to make the following certification: I certify, since the permit issue date, there has been no change in the status of connection points identified as inactive. These points remain inactive and no discharge occurred during the period covered by this report.
D.	If your permit special conditions authorize grab sample collection in lieu of composite sampling at any sample point(s), you are required to make the following certification:
•	I certify the grab sample results in this report accurately represent our average daily discharge at sample point(s)
E.	If your permit special conditions prohibit discharge of wastes which are subject to certain categorical pretreatment standards, you are required to make the following certification:
	I certify, since the last discharge monitoring report, there has been no discharge of wastes which are subject to pretreatment standards in 40 CFR
F.	Discharges subject to Pharmaceutical Categorical Standards (40 CFR 439) can be exempted from limitations and monitoring for Total Cyanide at the Pharmaceutical sample point(s) subject to the following certification: I certify, since the last discharge monitoring report, cyanide has not been used or generated in any pharmaceutical manufacturing process subject to Categorical Standards in 40 CFR 439.
G.	Discharges Subject to Categorical Standards for Electroplating (40 CFR 413), Metal Finishing (40 CFR 433) or Electrical & Electronic Components (40 CFR 469) can be exempted from TTO monitoring only at the Electroplating, Metal Finishing or Electrical & Electronic Components sample point(s) subject to the following certification: Based on my inquiry of the person or persons directly responsible for managing compliance with the permit limitation for total toxic
	organics (TTO), I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewaters has occurred since filing the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to MSD.
PART	IV: GENERAL CERTIFICATION STATEMENTS
Initial the	e box for statement A if it applies to you. Everyone must complete the information under statement B and sign this report.
A.	Discharges at sample points subject only to MSD Ordinance limits can be exempted from TTO monitoring subject to the following certification: In lieu of monitoring for TTO at sample point(s)
8	DISCHARGE MONITORING REPORT CERTIFICATION
who man and belie and impri	inder penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons age the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge f, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine isonment for knowing violations. When the person of persons are the person of persons are the person of persons.
Title:_	Hazardous Materials Division Manager Telephone: 314/762-6735
Signature	mili
	Watt. / - / - / - / - / - / - / - / - / - /

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TTO = 20.17 molf

October 5, 1999 Lab No. 99E-1010 Page 2 of 12

Attention: Mike Kershaw

TTO 20 - 20.17 mb/

RESULTS: µg/I

ام/رم/مرام EPA 600 METHOD 624 VOLATILE ORGANICS

	TIOD 024 VOLAT	ILE UNGANICS		
ANALYTE	001	003	MDL	
Dichlorodifluoromethane	ND	ND	10.0	
Chloromethane (Methyl chloride)	ND	. ND	10.0	
Vinyl Chloride	ND	ND	5.0	1
Bromomethane	ND	ND	10.0	1
Chloroethane	ND	ND	10.0	1
Trichlorofluoromethane	ND	ND	5.0	
1,1'-Oxybis-ethane	ND	ND	5.0	
Acrolein (KP)	(ND)	(ND)	100.0	
Acetone	ND	ND	10.0	1
1,1-Dichloroethene	. ND	ND	5.0	
lodomethane	ND	ND	5.0	
Allyl Chloride	ND	ND	5.0	
Carbon Disulfide	ND	ND	5.0	
Methylene Chloride	GPL	ВИ		40
Acrylonitrile	ND	ND	5.0	
2-Methoxy-2-methylpropane	ND	ND	5.0	
Hexane	ND	ND	5.0	
trans-1,2-Dichloroethene	ND	ND	5.0	
Vinyl Acetate	ND	ND	10.0	

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October 5, 1999 Lab No. 99E-1010 Page 3 of 12

ANALYTE	001	003	MDL	
1,1-Dichloroethane	ND	ND	5.0	
2-Butanone	ND	ND	10.0	-
Proplonitrile	ND	ND	10.0	
2,2-Dichloropropane	ND	ND	5.0	
cis-1,2-Dichloroethene	ND	ND	5.0	
Methacrylonitrile	ND	ND	10.0	
2-Propenic acid, methyl ester	ND	ND	10.0	
Chloroform	MD	. DA	5.0	4.01
Bromochloromethane	ND	ND	5.0	
Tetrahydrofuran	ŇD	ND	5.0	
1,1,1-Trichloroethane	ND	ND	5.0	
1-Chlorobutane	ND	ND	5.0	
Heptane	ND	ND	5.0	
1,1-Dichloropropene	ND	ND	5.0	
Carbon Tetrachloride	ND	DAD	3:0	4.01
1,2-Dlchloroethane	ND	ND	5.0	
Benzene (KP)	ME	NB	5:0	4.01
Trichloroethene	ND	ND	5.0	
1,2-Dichloropropane	ND	ND	5.0	
Methyl methacrylate	ND	ND ND	5.0	
Bromodichchloromethane	ND	ND		
Dibromomethane	ND	ND	5.0	
2-Nitropropane	ND	ND .	5.0	

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October 5, 1999 Lab No. 99E-1010 Page 4 of 12

		-		7)
ANALYTE	001	003	MDL	
2-Chloroethyl vinyl ether	ND	ND	10.0	
1,1-Dichloro-2-propanone	ND	ND	10.0	
cis-1,3-Dichloropropene	ND	ND	5.0	
Ethyl methacrylate	ND	ND	5.0	
trans-1,3-Dichloropropene	ND	ND	5.0	
1,1,2-Trichloroethane	ND	ND	5.0	
2-Hexanone	ND	ND	10.0	
1,3-Dichloropropane	ND	ND	5.0	
Dibromochloromethane	ND	- ND	5.0	Y
Bromoform	ND	ND	5.0	
4-Methyl-2-Pentanone	ND	ND	10.0	
Toluene (LP)	DAD	MQ	3.Q	0١. کيا
Tetrachloroethene	ND	ND	5.0	
1,2-Dibromoethane	ND	ND	5.0	
Chlorobenzene	ND	ND	5.0	
1,1,1,2-Tetrachloroethane	ND	ND	5.0	
Ethylbenzene	ND	ND	5.0	
m,p-Xylenes	ND	ND	5.0	
o-Xylene	ND	ND	5.0	

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October 5, 1999 Lab No. 99E-1010 Page 5 of 12

ANALYTE	001	003	MDL
Styrene	ND	ND	5.0
Isopropylbenzene	ND	ND	10.0
1,1,2,2-Tetrachioroethane	ND	ND	10.0
1,2,3-Trichloropropane	ND	ND	5.0
1,4-Dichloro-2-butene	ND	ND	5.0
n-Propylbenzene	ND	ND	5.0
Bromobenzene	ND	ND	5.0
1,3,5-Trimethylbenzene	ND	ND	5.0
2-Chlorotoluene	ND	ND	5.0
4-Chlorotoluene	ND	ND	5.0
tert-Butylbenzene	ND	ND	5.0
1,2,4-Trimethylbenzene	ND	ND	5.0
Pentachloroethane	ND	ND	5.0
sec-Butylbenzene	ND	ND	5.0
p-Isopropyitoluene	ND	ND	5.0
1,3-Dichlorobenzene	ND	ND	5.0
1,4-Dichlorobenzene	ND	ND	5.0
n-Butylbenzene	ND	ND	5.0
1,2-Dichlorobenzene	ND	ND	5.0

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October 5, 1999 Lab No. 99E-1010 Page 6 of 12

ANALYTE	001	003	MDL
Hexachloroethane	ND	ND	5.0
1,2-Dibromo-3-chioropropane	ND	ND	5.0
Nitrobenzene	ND	ND	5.0
1,2,4-Trichlorobenzene	ND	ND	5.0
Hexachlorobutadiene	ND	ND	5.0
Naphthalene	ND	ND	5.0
1,2,3-Trichlorobenzene	ND	ND	5.0

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October 5, 1999 Lab No. 99E-1010 Page 7 of 12

RESULTS mg/

SEMI-VOLATILE ORGANICS EPA 600 METHOD 625

ANALYTE	001	003	MDL	
Bis-(Chloromethyl)-ether	ND	ND ND	0.020	
Pyridine	ND	ND	0.020	
Aniline	ND_	ND	0.020	
Benzyl alcohol	ND	ND	0.020	
Phenol (42)	JAD	SAD.	0.095	三.01
2-Chlorophenol	ND	ND	0.010	
Bis-(2-Chloroethyl) ether	ND_	ND	0.010	
N-nitrosodimethylamine	ND ND	ND	0.010	
Bis-(2-Chloroisopropyl) ether	ND ND	ND	0.010	
N-Nitroso-di-n-propylamine	ND ·	ND	0.010	
1,3-Dichlorobenzene	ND	ND	0.010	
1,4-Dichlorobenzene	ND	ND ND	0.010	
1,2-Dichlorobenzene	ND	ND	0.010	
o-Cresol	ND	ND	0.020	
M,p-Cresol	ND ND	ND	0.020	
Hexachloroethane	ND	ND	0.010	
Nitrobenzene	ND	ND	0.010	
2,4-Dimethylphenol	ND	ND	0.020	
4-Chloroaniline	ND	ND ND	0.020	
2-Nitrophenol	ND	ND ·	0.020	ECI

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October 5, 1999 Lab No. 99E-1010 Page 8 of 12

ANALYTE	001	003	MDL
2,4-Dichlorophenol	ND	ND	0.020
Benzoic Acid	ND	ND	0.050
4-Chloro-3-methylphenol	ND	ND	0.020
Bis-(2-Chloroethoxy) methane	ND	ND	0.010
Isophorone	ND	ND	0.010
1,2,4-Trichlorobenzene	ND	ND	0.010
2-Methylnaphtalene	ND	ND	0.010
Hexachlorocyclopentadiene	ND	ND	0.010
Naphthalene	ND	ND	0.010
Hexachlorobutadiene	ND	ND	0.010
2,4,6-Trichlorophenol	ND	ND	0.010
2,4,5-Trichlorophenol	ND	ND	0.010
2-Nitroaniline	ND	ND	0.050
3-Nitroaniline	ND	. ND	0.050
4-Nitroaniline	ND	ND	0.010
2,4-Dinitrophenol (KP)	(ND)	(ND)	(0.050)
4-Nitrophenol	ND	ND	0.020
4,6-Dinitro-2-methylphenol	ND	ND	0.050
2-Chloronaphthalene	ND	ND	0.010
4-Chlorophenyl phenyl ether	ND	ND	0.010
Dimethyl phthalate	ND	ND	0.010
2,6-Dinitrotoluene	ND	ND	0.010

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October 5, 1999 Lab No. 99E-1010 Page 9 of 12

ANALYTE	001	003	MDL
Acenaphthylene	ND	ND	0.010
Dibenzofuran	ND	ND	0.010
Diethyl phthalate	ND	ND	0.100
Acenaphthene	ND	ND	0.010
Benzo(g,h,i)perylene	ND	ND	0.010
Fluorene	ND	ND	0.010
Azobenzene	ND	ND	0.010
2,4-Dinitrontoluene	ND	ND	0.010
Hexachlorobenzene	ND	ND	0.010
Pentachlorophenol	ND	ND ND	0.050
N-Nitrosodiphenylamine	ND	ND	- +
4-Bromophenyl phenyl ether	ND	ND	0.010
Carbazole	ND	ND ND	0.010
Di-n-butyl phthalate	ND	ND	0.020
Phenanthrene	ND		0.010
Anthracene	ND	ND_	0.010
Fluoranthene	ND	ND_	0.010
Butyl benzyl phthalate	ND ND	ND	0.010
Bis(2-ethylhexyl) phthalate	ND	ND	0.010
Pyrene		ND_	0.010
Benzo(a)anthracene	ND	<u>ND</u>	0.010
	ND	ND .	0.010



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Octobor 5, 1009 Lab No. 99E-1010 Page 10 of 12

ANALYTE	001	003	MDL
Chrysene	ND	ND	0.010
3,3'-Dichlorobenzidine	ND	ND	0.010
Di-n-octyl phthalate	ND ND	ND ND	0.010
Benzidine (LD)	(ND)	(ND)	(0.020
Benzo(b)fluoranthene	ND	ND	0.010
Benzo(k)fluoranthene	ND	ND	0.010
Benzo(a)pyrene	ND	ND	0.010
Dibenzo(a,h)anthracene	ND	ND	0.010
Indeno(1,2,3-cd)pyrene	ND	ND	0.010

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October 5, 1999 Lab No. 99E-1010 Page 11 of 12

RESULTS: µg/L

PESTICIDES/PCB's SW846-8081, EPA METHODOLOGY

ANALYTE	001	003	MDL
Aldrin	ND	ND	0.018
alpha-BHC	ND	ND	0.007
beta-BHC	ND	ND	0.018
gamma-BHC (Lindane)	ND	ND	0.007
delta-BHC	ND	ND	0.020
Chlordane (Technical)	ND	ND	0.017
4,4-DDD	ND	ND	0.018
4,4-DDE	ND	ND	0.010
4,4-DDT	ND	ND	0.018
Dieldrin	ND	ND	0.007
Endosulfan I	ND	ND	0.018
Endosulfan II	ND	ND	0.010
Endosulfan Sulfate	ND	ND	0.092
Endrin	ND	ND	0.018
Endrin Aldehyde	ND	ND L.O	0.092
Heptachlor \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	ND	0.0367	0.024
Heptachlor Epoxide	ND	ND	0.092
			0.002

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October 5, 1999 Lab No. 99E-1010 Page 12 of 12

ANALYTE	001	003	MDL
Methoxychlor	ND	ND	0.122
Toxaphene	ND	ND	0.290
Arochlor-1016	ND	ND	1.22
Arochlor-1221	ND .	ND	1.22
Arochlor-1232	ND.	ND	1.22
Arochior-1242	ND	ND	1.22
Arochlor-1248	ND	ND	1.22
Arochlor-1254	ND	ND	1.22
Arochlor-1260	ND	ND	1.22

ND: Not Detected / MDL: Method Detection Limit

CSD/mrm

Carmen S. DeBlass, Director Environmental Testing

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TTO = 20.192 may

October 5, 1999 Lab No. 99E-1001 Page 2 of 12

Attention: Mike Kershaw

TTO = 20.17 moll

RESULTS (µg/l)

EPA 600 METHOD 624 VOLATILE ORGANICS

ANALYTE	004	005	MDL	
Dichlorodifluoromethane	ND	ND	10.0	
Chloromethane (Methyl chloride)	ND	ND	10.0	
Vinyl Chloride	ND	ND	5.0	
Bromomethane	ND	ND	10.0	
Chloroethane	ND	ND	10.0	
Trichlorofluoromethane	ND	ND	5.0	
1,1'-Oxybis-ethane	ND	ND	5.0	
Acrolein (P)	(ND)	(ND)	(100.0)	
Acetone) ND	ND	10.0	
1,1-Dichloroethene	ND	ND	5.0	
lodomethane	ND	ND	5.0	
Allyl Chloride	ND	ND	5.0	
Carbon Disulfide	ND	ND	5.0	
Methylene Chloride (P	NQ	JAD	5.0	۷.
Acrylonitrile	ND	ND	5.0	
2-Methoxy-2-methylpropane	ND	ND	5.0	
Hexane	ND	ND	5.0	
trans-1,2-Dichloroethene	ND	ND	5.0	
Vinyl Acetate	ND	ND	10.0	

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Lab No. 99E-1001 Page 3 of 12

Attention: Mike Kershaw

ANALYTE	004	005	MDL	
1,1-Dichloroethane	ND	ND .	5.0	
2-Butanone	ND	ND	10.0	
Propionitrile ·	ND ND	ND	10.0	
2,2-Dichloropropane	ND ND	ND	5.0	
cis-1,2-Dichloroethene	ND	ND	5.0	
Methacrylonitrile	ND	ND	10.0	
2-Propenic acid, methyl ester	ND	ND	10.0	
Chloroform (LP)	JAD	NO	Do	4.01
Bromochloromethane	ND ND	ND ND	5.0	
Tetrahydrofuran	ND	ND	5.0	
1,1,1-Trichloroethane	ND	ND	5.0	
1-Chlorobutane	ND	ND	5.0	
Heptane	ND	ND	5.0	
1,1-Dichloropropene	ND	ND	5.0	
Carbon Tetrachloride	NQ	NO	3NQ	
1,2-Dichloroethane	ND	ND	5.0	4.01
Benzene (KP)	NB	JAD	3.0	
Trichloroethene	ND	ND	5.0	
1,2-Dichloropropane	ND	ND	5.0	
Methyl methacrylate	ND	ND	5.0	
Bromodichchloromethane	ND	ND	5.0	
Dibromomethane	ND:	ND	5.0	
2-Nitropropane	ND	ND .	10.0	



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October 5, 1999 Lab No. 99E-1001 Page 4 of 12

		·		
ANALYTE	004	005	MDL	
2-Chloroethyl vinyl ether	ND	ND	10.0	
1,1-Dichloro-2-propanone	ND	ND	10.0	
cls-1,3-Dichloropropene	ND	ND	5.0	
Ethyl methacrylate	ND	ND	5.0	
trans-1,3-Dichloropropene	ND	ND	5.0	
1,1,2-Trichloroethane	ND	ND	5.0	
2-Hexanone	ND	ND	10.0	
1,3-Dichloropropane	ND	ND	5.0	4
Dibromochloromethane	ND	ND	5.0	
Bromoform	ND	ND	5.0	
4-Methyl-2-Pentanone	ND	ND	10.0	
Toluene	MQ	Jub	300	4.0
Tetrachloroethene	ND	ND	5.0	
1,2-Dibromoethane	ND	ND	5.0	
Chlorobenzene	ND	ND	5.0	
1,1,1,2-Tetrachloroethane	ND	ND	5.0	
Ethylbenzene	ND	ND	5.0	
m,p-Xylenes	ND	ND	5.0	
o-Xylene	ND	ND	5.0	

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October 5, 1999 Lab No. 99E-1001 Page 5 of 12

ANALYTE	004	005	MDL
Styrene	ND	ND	5.0
Isopropyibenzene	ND	ND	10.0
1,1,2,2-Tetrachloroethane	ND	ND	10.0
1,2,3-Trichloropropane	ND	ND	5.0
1,4-Dichloro-2-butene	ND	ND	5.0
n-Propylbenzene	ND	ND	5.0
Bromobenzene	ND	ND	5.0
1,3,5-Trimethylbenzene	ND	ND	5.0
2-Chlorotoluene	ND	ND	5.0
4-Chlorotoluene	ND	ND	5.0
tert-Butylbenzene	ND	ND	5.0
1,2,4-Trimethylbenzene	ND	ND	5.0
Pentachioroethane	ND	ND	5.0
sec-Butylbenzene	ND	ND	5.0
p-Isopropyltoluene	ND	ND	5.0
1,3-Dichlorobenzene	ND	ND	5.0
1,4-Dichlorobenzene	ND	ND	5.0
n-Butylbenzene	ND	ND	5.0
1,2-Dichlorobenzene	ND	ND	5.0



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October 5, 1999 Lab No. 99E-1001 Page 6 of 12

ANALYTE	004	005	MDL
Hexachloroethane	ND	ND	5.0
1,2-Dibromo-3-chloropropane	ND	ND	5.0
Nitrobenzene	ND	ND	5.0
1,2,4-Trichlorobenzene	ND	ND	5.0
Hexachlorobutadiene	ND	ND	5.0
Naphthalene	ND	ND	5.0
1,2,3-Trichlorobenzene	ND	ND	5.0

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October 5, 1999 Lab No. 99E-1001 Page 7 of 12

RESULTS: mg/l

SEMI-VOLATILE ORGANICS EPA 600 METHOD 625

ANALYTE	(004)	005	MDL
Bis-(Chloromethyl)—ether	ND	ND	0.020
Pyridine	ND	ND	0.020
Aniline	ND	ND	0.020
Benzyl alcohol	ND	ND	0.020
Phenol (KP)	NQ	No	0.805
2-Chlorophenol	ND	ND	0.010
bis-(2-Chloroethyl) ether	ND	ND	0.010
N-nitrosodimethylamine	ND	ND	0.010
bis-(2-Chloroisopropyl) ether	ND	ND	0.010
N-Nitroso-di-n-propylamine	ND	ND	0.010
1,3-Dichlorobenzene	ND	ND	0.010
1,4-Dichlorobenzene	ND	ND	0.010
1,2-Dichlorobenzene	ND	ND	0.010
o-Cresol	ND	ND	0.020
m,p-Cresol	ND	ND	0.020
Hexachloroethane	ND	ND	0.010
Nitrobenzene	ND	ND	0.010
2,4-Dimethylphenol	ND	ND	0.020
4-Chloroaniline	ND	ND	0.020
2-Nitrophenol	ND	ND	0.020

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October 5, 1999 Lab No. 99E-1001 Page 8 of 12

ANALYTE	004	005	MDL
2,4-Dichlorophenol	ND	ND	0.020
Benzoic Acid	ND	ND	0.050
4-Chloro-3-methylphenol	ND	ND	0.020
bis-(2-Chloroethoxy) methane	ND	ND	0.010
Isophorone	ND	ND	0.010
1,2,4-Trichlorobenzene	ND	ND	0.010
2-Methylnaphthalene	ND	ND	0.010
Hexachlorocyclopentadiene	ND	ND	0.010
Naphthalene	ND	ND	0.010
Hexachlorobutadiene	ND	ND	0.010
2,4,6-Trichlorophenol	ND	ND	0.010
2,4,5-Trichlorophenol	ND	ND	0.010
2-Nitroaniline	ND	ND	0.050
3-Nitroaniline	ND	ND	0.050
4-Nitroanlline	ND	ND	0.010
2,4-Dinitrophenol	ND	(ND)	(0.050)
4-Nitrophenol	ND	ND	0.020
4,6-Dinitro-2-methylphenol	ND	ND	0.050
2-Chloronaphthalene	ND	ND	0.010
4-Chlorophenyl phenyl ether	ND	ND	0.010
Dimethyl phthalate	ND	ND	0.010
2,6-Dinitrotoluene	ND	ND	0.010



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October 5, 1999 Lab No. 99E-1001 Page 9 of 12

ANALYTE	004	005	MDL
Acenaphthylene	ND	ND	0.010
Dibenzofuran	ND	ND	0.010
Diethyl phthalate	ND	ND	0.100
Acenaphthene	ND	ND_	0.010
Benzo(g,h,i)perylene	ND	ND	0.010
Fluorene	ND	ND	0.010
Azobenzene	ND	ND	0.010
2,4-Dinitrotoluene	ND	ND	0.010
Hexachlorobenzene	ND	ND	0.010
Pentachlorophenol	ND	ND	0.050
N-Nitrosodiphenylamine	ND	ND	0.010
4-Bromophenyl phenyl ether	ND	ND	0.010
Carbazole	ND	ND	0.020
Di-n-butyl phthalate	ND	ND	0.010
Phenanthrene	. ND	ND	0.010
Anthracene	ND	ND	0.010
Fluoranthene	ND	ND	0.010
Butyl benzyl phthalate	NB	ND	0.010
bis(2-ethylhexyl) phthalate	0.022	MQ =:01	0.010
Pyrene	ND	ND	0.010
Benzo(a)anthracene	ND	ND .	0.010

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October 5, 1999 Lab No. 99E-1001 Page 10 of 12

ANALYTE	004	005	MDL
Chrysene	ND	ND	0.010
3,3'-Dichlorobenzidine	ND	ND	0.010
Di-n-octyl phthalate	ND	ND	0.010
Benzidine (K)	(ND)	(ND)	6.020
Benzo(b)fluoranthene	ND	ND	0.010
Benzo(k)fluoranthene	ND	ND	0.010
Benzo(a)pyrene	ND	ND	0.010
Dibenzo(a,h)anthracene	ND	ND	0.010
Indeno(1,2,3-cd)pyrene	ND	ND	0.010

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October 5, 1999 Lab No. 99E-1001 Page 11 of 12

RESULTS: µg/L

PESTICIDES/PCB's SW846-8081, EPA METHODOLOGY

ANALYTE	004	005	MDL
Aldrin	ND	ND	0.018
alpha-BHC	ND	ND	0.007
beta-BHC	ND	ND	0.018
gamma-BHC (Lindane)	ND	ND	0.007
delta-BHC	ND	ND	0.005
Chlordane (Technical)	ND	ND	0.017
4,4-DDD	0.081	ND	0.018
4,4-DDE	0.084	ND	0.010
4,4-DDT	ND .	ND	0.018
Dieldrin	ND	ND	0.007
Endosulfan I	ND	ND	0.018
Endosulfan II	£.01 0.086	ND	0.010
Endosulfan Sulfate	ND	ND	0.092
Endrin	ND	ND	0.018
Endrin Aldehyde	ND	ND	0.092
Heptachlor	ND	£.00.0867	0.025
Heptachlor Epoxide	ND	ND	0.092



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October 5, 1999 Lab No. 99E-1001 Page 12 of 12

ANALYTE	004	005	MDL
Methoxychlor	ND	ND	0.123
Toxaphene	ND	ND	0.300
Arochlor-1016	ND	ND	1.23
Arochlor-1221	ND	ND ND	1,23
Arochlor-1232	ND	ND	1.23
Arochlor-1242	ND	ND	1.23
Arochlor-1248	ND	ND	1.23
Arochlor-1254	ND	ND	1.23
Arochlor-1260	ND	ND	1.23

ND: Not Detected / MDL: Method Detection Limit

CSD/mrm

Carmen S. DeBlass, Director Environmental Testing

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METROPOLITAN ST. LOUIS SEWER DISTRICT INDUSTRIAL USER RADIOACTIVE MATERIALS DISCHARGE REPORT

PART I: IDENTIFYING IN RMATION	PATERIALS DISCHARGE REPORT
Company Name: Washington University School o	of Medicine - bldge West of Euclid
Permit No:	Drags 40-51 B. Cachel
Premise Address: 660 S. Euclid Ave.	St. Louis MO 63110
Reporting Period: O(JAN-MAR) G(APR-JUN	
PART II: RECORD OF DISPOSAL OF RADIOA	CTIVE MATERIALS TO THE SEWER SYSTEM
RADIONUCLIDE	ACTIVITY DISCHARGED (millicuries)
H-3	5.483
P-32	0,490
5-35	0.334
C-14	0.044
1-125	0.081
In-111	0.020
·	REC D
	JUL 2 3 1909
	Environmental Compliance
TOTAL ACTIVITY DISCHARGED:	6.452 mC;
PART III: CERTIFICATION STATEMENTS	
Place your initials in the boxes under item A wh	ich apply to you. Everyone must complete the
information under item B and sign this report.	
A. CERTIFICATION OF COMPLIANCE WITH STATE A	
1/1/5 20-10.090 governing disposal by release in	e and belief, all requirements of 19 CSR Part nto sanitary sewage for material regulated by en met for the period covered by this report.
1/) ICL 40.4003 GOVERNING disposal by release in	e and belief, all requirements of 10 CFR Part to sanitary sewage for material regulated by en met for the period covered by this report.
B. RADIOACTIVE MATERIALS DISCHARGE REPORT CI	ERTIFICATION
I certify under penalty of Law that this document direction or supervision in accordance with a personnel properly gather and evaluate the inforperson or persons who manage the system, or those the information, the information submitted is, accurate, and complete. I am aware that there are information, including the possibility of fine	a system designed to assure that qualified mation submitted. Based on my inquiry of the se persons directly responsible for gathering to the best of my knowledge and belief, true, re significant penalties for submitting false.
Print or type name of signing official: Qanie	1 Szatkowski
Title: Assistant Radiation Safety Officer	
Signature: Danie O hathon	Date: 7.21-99

radrpt 6/94

METROPOLITAN ST. LOUIS SEWER DISTRICT INDUSTRIAL USER RADIOACTIVE MATERIALS DISCHARGE REPORT

PART I: IDENTIFYING IN RMATION	
Company Name: Washington University 5.	chool of Medicine - bldgs East of Euclid
Permit No:	
Premise Address: 660 S. EuCid Ave	- St. Louis MD 63110
Reporting Period: O(JAN-MAR) S(APR-JUN	JE) O(JULY-SEPT) O(OCT-DEC)
PART II: RECORD OF DISPOSAL OF RADIOA	CTIVE MATERIALS TO THE SEWER SYSTEM
RADIONUCLIDE	ACTIVITY DISCHARGED (millicuries)
И.З	91. 469 mC;
P-32	1. 626
S·35 (-14	0.233
	1,271
1-125 P-33	0.068
	0.010
Zn-65	0.150
	REC
	JUL 2 3 1999
	Environmental Compr
TOTAL ACTIVITY DISCHARGED:	94.827 m C:
PART III: CERTIFICATION STATEMENTS	
Place your initials in the boxes under item A whinformation under item B and sign this report.	ich apply to you. Everyone must complete the
A. CERTIFICATION OF COMPLIANCE WITH STATE A	ND FEDERAL REGULATIONS
[[]]] 20-10.090 governing disposal by release in	e and belief, all requirements of 19 CSR Part nto sanitary sewage for material regulated by en met for the period covered by this report.
	e and belief, all requirements of 10 CFR Part to sanitary sewage for material regulated by en met for the period covered by this report.
B. RADIOACTIVE MATERIALS DISCHARGE REPORT CI	
I certify under penalty of Law that this document direction or supervision in accordance with a personnel properly gather and evaluate the information or persons who manage the system, or thousand the information, the information submitted is, accurate, and complete. I am aware that there are information, including the possibility of fine	system designed to assure that qualified mation submitted. Based on my inquiry of the se persons directly responsible for gathering to the best of my knowledge and belief, true, re significant penalties for submitting false
Print or type name of signing official: Danie	of 1 Szatkowski
Title: Assistant Radiation Safety Office	er Telephone: (3/4)362-3479
	Date: 72199
	radrpt 6/94

METROPOLITAN ST. LOUIS SEWER DISTRICT INDUSTRIAL USER RADIOACTIVE MATERIALS DISCHARGE REPORT

IDENTIFYING IN RMATION

PART I:

Company Name: Washington University School o	of Modicine- bldgs East of Euclid
Permit No:	•
Premise Address: 660 S. Euclid Ave.	St. Louis MO 63110
Reporting Period: G(JAN-MAR) G(APR-JUN	E) G(JULY-SEPT) G(OCT-DEC)
PART II: RECORD OF DISPOSAL OF RADIOA	CTIVE MATERIALS TO THE SEWER SYSTEM
RADIONUCLIDE	ACTIVITY DISCHARGED (millicuries)
H-3	66,100
P-32	1:078
S-35	0.406
C-14	0.090
I-125	0.070
P-33	0.065
Cc-51.	0,002
·	
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	APR
TOTAL ACTIVITY DISCHARGED:	Environmenta Compliana
PART III: CERTIFICATION STATEMENTS	
Place your initials in the boxes under item A wh information under item B and sign this report.	ich apply to you. Everyone must complete the
A. CERTIFICATION OF COMPLIANCE WITH STATE AN	ND FEDERAL REGULATIONS
	e and belief, all requirements of 19 CSR Part nto sanitary sewage for material regulated by en met for the period covered by this report.
1/1/5/ 20.2003 doverning disposal by release int	e and belief, all requirements of 10 CFR Part to sanitary sewage for material regulated by en met for the period covered by this report.
B. RADIOACTIVE MATERIALS DISCHARGE REPORT CE	ERTIFICATION
I certify under penalty of Law that this document direction or supervision in accordance with a personnel properly gather and evaluate the inforperson or persons who manage the system, or those the information, the information submitted is, to accurate, and complete. I am aware that there are information, including the possibility of fine	mation submitted. Based on my inquiry of the see persons directly responsible for gathering to the best of my knowledge and belief, true, the second persons the seco
Print or type name of signing official: Danie	el J Szatkowski
Title: Assistant Radiation Safety Officer	Telephone: (3/4) 36 2.347 9
Signature: Danie of fathoust	Date: 4-26-99
	radrpt 6/94

METROPOLITAN ST. LOUIS SEWER DISTRICT INDUSTRIAL USE RADIOACTIVE MATERIALS DISTRICT REPORT

	1: IDENTIFYING INFORMATION	DCM 1 11 11) at if Eve	1 · 1
Compar	y Name: Washington University Schoo	Pof Medicine-bldg. West of Euc	100
Permit	: No:	ve. St. Louis MO 63110	
_	ing Period: G(JAN-MAR) D(APR-JUN		F73.6
PART	II: RECORD OF DISPOSAL OF RADIOA	CTIVE MATERIALS TO THE SEWER SYSTI	EM
	RADIONUCLIDE	ACTIVITY DISCHARGED (millicuries)	
	H-3	6.391	
	P-32	0.784	
	S-35	0.333	
	C-14	0.082	
	1-125	0.101	
	P-33	0.001	
_			
		REC	** 4
		APR 2	1000
			1999
		Environmental Col	m pl .an _{ie} e
	TOTAL ACTIVITY DISCHARGED:	7.692 mC;	
PART	III: CERTIFICATION STATEMENTS		
	•	which apply to you. Everyone must complet	e the
infor	your initials in the boxes under item A w mation under item B and sign this report.	• Everyone must compre-	
A.	CERTIFICATION OF COMPLIANCE WITH STATE A	AND FEDERAL REGULATIONS	
\(\lambda\)	I certify that to the best of my knowledge 20-10 090 governing disposal by release	ge and belief, all requirements of 19 CSR into sanitary sewage for material regulat	Part ed by
012	20-10.090 governing disposal by release :	ge and belief, all requirements of 19 CSR into sanitary sewage for material regulat een met for the period covered by this re	ed by
015	20-10.090 governing disposal by release the Missouri Department of Health have be certify that to the best of my knowledd 20.2003 governing disposal by release in	into sanitary sewage for material regulat	ed by port. Part ed by
	20-10.090 governing disposal by release the Missouri Department of Health have be certify that to the best of my knowledd 20.2003 governing disposal by release in	into sanitary sewage for material regulateen met for the period covered by this regular ge and belief, all requirements of 10 CFR nto sanitary sewage for material regulateen met for the period covered by this regular	ed by port. Part ed by
ورن B.	20-10.090 governing disposal by release the Missouri Department of Health have be I certify that to the best of my knowledd 20.2003 governing disposal by release in the Nuclear Regulatory Commission have be RADIOACTIVE MATERIALS DISCHARGE REPORT (2) with the comment of the co	into sanitary sewage for material regulateen met for the period covered by this regular and belief, all requirements of 10 CFR nto sanitary sewage for material regulateen met for the period covered by this research to the period covered by this research and all attachments were prepared und	ed by port. Part ed by port. er my
B. I cert direc perso perso the in	20-10.090 governing disposal by release the Missouri Department of Health have be I certify that to the best of my knowledd 20.2003 governing disposal by release in the Nuclear Regulatory Commission have be RADIOACTIVE MATERIALS DISCHARGE REPORT (Lify under penalty of Law that this document or supervision in accordance with unel properly gather and evaluate the information, the information submitted is, ate, and complete. I am aware that there are the supervision in the supervision in aware that there are the supervision in t	into sanitary sewage for material regulateen met for the period covered by this regular and belief, all requirements of 10 CFR nto sanitary sewage for material regulateen met for the period covered by this regulaterate.	ed by port. Part ed by port. er my ified of the true, false
B. I certdirec person the inaccur infor	20-10.090 governing disposal by release the Missouri Department of Health have been according to the Missouri Department of Health have been accorded as a comparison of the Nuclear Regulatory Commission have been accorded as a comparison of Law that this document in accordance with an accordance with a corporation, the information submitted is, ate, and complete. I am aware that there are an accordance with a corporation, including the possibility of fine accordance of signing official:	into sanitary sewage for material regulation met for the period covered by this regulation met for the period covered by this regulation of sanitary sewage for material regulation met for the period covered by this regulation met for the period covered by this regulation and all attachments were prepared und a system designed to assure that qual cormation submitted. Based on my inquiry of the best of my knowledge and belief, are significant penalties for submitting e and imprisonment for knowing violation.	ed by port. Part ed by port. er my ified of the ering true, false s.
B. I certdirec person the inaccur infor	20-10.090 governing disposal by release the Missouri Department of Health have been according to the Missouri Department of Health have been accorded as a comparison of the Nuclear Regulatory Commission have been accorded as a comparison of Law that this document in accordance with an accordance with a corporation, the information submitted is, ate, and complete. I am aware that there are an accordance with a corporation, including the possibility of fine accordance of signing official:	into sanitary sewage for material regulation met for the period covered by this regulation met for the period covered by this regulation of sanitary sewage for material regulation met for the period covered by this regulation met for the period covered by this regulation and all attachments were prepared und a system designed to assure that qual cormation submitted. Based on my inquiry of the best of my knowledge and belief, are significant penalties for submitting e and imprisonment for knowing violation.	ed by port. Part ed by port. er my ified of the ering true, false s.
B. I certdirec person the inaccur infor	20-10.090 governing disposal by release the Missouri Department of Health have been according to the Missouri Department of Health have been accorded as a comparison of the Nuclear Regulatory Commission have been accorded as a comparison of Law that this document in accordance with an accordance with a corporation, the information submitted is, ate, and complete. I am aware that there are an accordance with a corporation, including the possibility of fine accordance of signing official:	into sanitary sewage for material regulation met for the period covered by this regular met for the period covered by this regulation of the sanitary sewage for material regulation met for the period covered by this responsible for the period covered by this responsible for gath of the best of my knowledge and belief, are significant penalties for submitting the and imprisonment for knowing violation. Set Szatkowsk: Telephone: (3/4) 362 -3479 Date: 4-26.99	ed by port. Part ed by port. er my ified of the ering true, false s.

From:

DOUG MENDOZA

To:

permits

Date:

1/13/99 9:00am

Subject:

NOTIFICATION OF FUTURE SIUS

The following medical schools were recently added to your Pretreatment Database.

51122162-00 Washington University School of Medicine at 660 South Euclid 63110

41121936-00 St. Louis University School of Medicine at 1402 South Grand 63104

Both have very large wastewater discharges from their laboratories (greater than 25,000 GPD). Thus, both meet the criteria for SIUs and have been added to the MSD list. Their categories will be 4,9.

cc:

field, rozema